PES Environmental, Inc.
Engineering & Environmental Services

July 19, 2017

1358.001.01

Mr. Harry Grant
Riddell Williams, P.S.
1001 Fourth Avenue, Suite 4500
Seattle, Washington 98154

Mr. Kenneth Bloch
Keller Rohrback L.L.P.
1201 Third Avenue, Suite 3200
Seattle, Washington 98101

STATUS REPORT – OCTOBER 2016 THROUGH APRIL 2017
MANHATTAN VILLAGE SHOPPING CENTER AND HARRIS PROPERTIES
NORMANDY PARK, WASHINGTON

Dear Mr. Grant and Mr. Bloch:

PES Environmental, Inc. (PES) has prepared this letter to summarize the remediation system startup and operation and maintenance (O&M) activities through April 2017, and groundwater monitoring and sampling events conducted in December 2016 and March 2017 for the Manhattan Village Shopping Center (MVSC) property located at 17835 First Avenue South (the "MVSC property") and the Harris property located at 17817 – 17825 First Avenue South in Normandy Park, Washington (the "Harris property"), collectively referred to as the "Property." The location and current features of the Property are shown on Figures 1 and 2. This work was conducted in accordance the Remedial Action Work Plan (RAWP[1]) and the Operations and Maintenance Plan (O&M Plan)[2]. A Sampling and Analysis Plan (SAP) was included as Appendix H to the RAWP.

REMEDIATION SYSTEM INSTALLATION, STARTUP, AND O&M

Air Sparging and Soil Vapor Extraction System Description

The AS/SVE system includes 22 SVE wells, 31 AS wells, and a remediation equipment enclosure containing the AS and SVE mechanical equipment and controls (Figure 3). The SVE system consists of a well manifold, positive displacement blower, inline silencers, moisture

[1] PES Environmental, Inc. 2016. *Remedial Action Work Plan, Manhattan Village Shopping Center and Harris Properties, VCP NW1873, Normandy Park, Washington*. October.
[2] PES Environmental, Inc. 2016. *Operations and Maintenance Plan, Manhattan Village Shopping Center and Harris Properties, VCP NW1873, Normandy Park, Washington.* December.

knockout, condensate storage and transfer pumps, and discharge stack. The SVE manifold includes a vacuum gauge, and each leg of the manifold includes a balancing valve, sampling port, and flow and vacuum monitoring port. The discharge stack includes a temperature gauge, flow meter, sampling port, and an inline silencer. The AS system consists of a well manifold, positive displacement blower, inline silencers, and a heat exchanger. Each leg of the manifold includes a pressure gauge, flow meter, and balancing valve. The AS blower and heat exchanger include pressure and temperature gauges. The SVE blower, AS blower, and heat exchanger are mounted inside insulated enclosures to dampen the equipment noise.

The AS wells are designed to target the sand and silty sand aquifer directly above the silt and clay layer that has been encountered at depths of 46.5 to 50 feet (ft) below ground surface (bgs) on the Harris property and 55 to 56 ft bgs on the MVSC property. The SVE wells are installed at two levels within the vadose zone. Shallow screened wells (5 to 20 ft bgs) target the upper vadose zone, and deeper screened wells (20 to 30 ft bgs on Harris property and 20 to 35 ft bgs on MVSC property) target the lower vadose zone. Detailed descriptions of the AS/SVE system, remediation wells, as-built drawings, and startup and O&M procedures are included in the O&M Plan.

The existing 10-well interim SVE system operated from September 2009 through October 2014, and was shut down so that the SVEs wells could be tied into the current SVE system. The AS/SVE system was constructed by IO Environmental and Infrastructure, Inc. of Redmond, Washington with oversight by PES. The subsurface trenching and piping installations occurred in the Fall of 2014 and early 2015 and the majority of the remediation equipment was installed in March of 2015. Electrical service and the installation of noise abatement equipment occurred in 2016, final system testing and startup occurred in October 2016.

Air Sparging and Soil Vapor Extraction System Startup

The SVE portion of the system was started on October 19, 2016 and the AS portion of the system was started on October 21, 2016. In accordance with the O&M Plan, the 4 week startup period included SVE system startup and balancing, AS system startup and balancing, monitoring water levels and dissolved oxygen concentrations within the AS zone of influence (ZOI), and frequent O&M inspection, monitoring, and sampling.

One SVE stack sample was collected per week during the four weeks of the startup period. Samples were analyzed for Volatile Organic Compounds (VOCs) by Environmental Protection Agency (EPA) Method TO-15 to evaluate mass removed and to verify compliance with Puget Sound Clean Air Agency (PSCAA) and Washington State Department of Ecology (Ecology) discharge regulations.

The initial tetrachloroethene (PCE) concentration in the SVE system effluent, sampled on October 25, 2016 was 2,100 micrograms per cubic meter ($\mu g/m^3$). The PCE concentration decreased to 942 $\mu g/m^3$ by the end of the startup period on November 16, 2016. By comparison, the PCE concentration in the 10-well interim SVE system discharge sample collected on October 7, 2014, prior to shut down of the system, was 543 $\mu g/m^3$.

Air Sparging and Soil Vapor Extraction System O&M

The system operated with an uptime of approximately 91% during this reporting period with the majority of the down time due to the shut downs for groundwater sampling activities in December 2016 and March 2017. The system was shut down on December 20, 2016 for oil changes and belt adjustments, and the remaining down time was due to power outages. The SVE system operating data is summarized in Table 1 and the AS system operating data is summarized in Table 2.

The AS system operated at pressures of approximately7 to 9 pounds per square inch (psi) and average flow rates of 8.5 to 9.5 standard cubic feet per minute (scfm) per AS leg. The SVE system operated at vacuums of 30 to 35 inches of water column (in.w.c.), flow rates of approximately 35 to 60 scfm per SVE leg, and total flow rates ranging from 790 to 880 scfm, with an average of approximately 830 scfm.

SVE Sampling. After the initial four weeks of operation, the PCE concentrations in the SVE effluent ranged from 248 to 477EJ $\mu g/m^3$. The PCE removal rates ranged from 0.019 pounds per day (lbs/day) to 0.157 lbs/day. A total of 6.9 pounds of PCE were removed from the October 19, 2016 startup through April 20, 2017. A total of 104.4 pounds of PCE have been removed throughout the lifetimes of the SVE systems that operated from September 2009 through April 20, 2017. Charts showing SVE effluent PCE concentrations and cumulative PCE mass removal are included as Attachments A-1 and A-2.

On December 12, 2016, samples were collected from each of the 22 SVE legs for VOC analysis using EPA Method TO-15. The results were used to adjust the SVE leg flows to optimize removal rates and are summarized in Table 3. The PCE concentrations in the SVE wells on the Harris property ranged from 65 to 1,130 $\mu g/m^3$ and the PCE concentrations in the SVE wells on the MVSC property ranged from 136 to 1,490 $\mu g/m^3$. Elevated PCE concentrations (above 1,000 $\mu g/m^3$) were present in two wells located behind the Four Star Cleaners (SVE-6 and SVE-7). Historical SVE leg monitoring and analytical data is included in Attachment A-3.

On average, PCE made up approximately 91 percent of the total VOCs by weight in SVE stack samples and SVE well samples. Breakdown products of PCE including trichloroethene (TCE) and cis-1,2-dichloroethene (cDCE) were typically detected at insignificant concentrations of less than 1 to 2 percent of the total VOC concentration. Vinyl chloride has never been detected. Other VOCs are a minor component of the discharge and include: 1-propene, 1,4-dichlorobenzene, 2-butanone (MEK), 4-ethyltoluene, acetone, benzene, carbon disulfide, chloroform, dichlorodifluoromethane (CFC-12), ethylbenzene, ethyl acetate, hexane, isopropyl alcohol, xylenes, methylene chloride, naphthalene, styrene, tetrahydrofuran, toluene, trichlorofluoromethane (CFC-11), 1,3,5-trimethylbenzene, and 1,2,4-trimethylbenzene. The total VOC concentration in the effluent ranged from approximately 79 to 2,814 $\mu g/m^3$ with total VOC removal rates ranging from 0.024 to 0.163 lbs/day. Copies of the laboratory analytical reports and data validation memorandum are included in Attachment B.

The SVE system discharge is in compliance with the PSCAA exemption limits (e.g., less than 500 lb/year of total VOCs), and is below the Ecology small quantity emission rate of 32.4 lb/year of PCE.

Dissolved Oxygen Monitoring. Dissolved oxygen (DO) concentrations within the AS system ZOI are monitored monthly during routine O&M. The DO concentrations have increased since startup of the AS system, and the average DO concentration during the reporting period was approximately 10.4 milligrams per liter (mg/L). Prior to AS operation in December 2015, the average DO concentration within the ZOI of the AS system was approximately 6.4 mg/L. Routine DO and associated water level monitoring data are summarized in Attachment A-4.

Residuals Management and Disposal

Residuals generated during the reporting period include SVE system condensate, groundwater sampling purge and decontamination water, decontamination and development water from AS and SVE well installation, soil cuttings from AS and SVE well installation, and remediation trench spoils. Residuals were disposed of as non-hazardous waste off-site at approved facilities. Copies of disposal documentation are included in Attachment C.

Wastewater Disposal. 140 gallons of SVE system condensate non-hazardous wastewater, from the previous interim SVE system, was disposed of by Marine Vacuum Service, Inc. (MarVac) on December 19, 2014. 1,500 gallons of non-hazardous wastewater including SVE condensate generated by the current AS/SVE system and groundwater sampling was disposed of by MarVac on January 18, 2017. 2,558 gallons of non-hazardous wastewater generating during remediation well installation and well development activities was disposed of by PSC Environmental Services, LLC on May 20, 2015.

Soil Disposal. A total of approximately 261 tons of soil contaminated with PCE (F002-listed soil) was generated during the AS and SVE well installations and pipe trenching activities. PES prepared a "Contained In Determination" request in a letter to Ecology, dated October 14, 2014 and a second request on November 3, 2014. Ecology determined that the soil could be managed as non-dangerous waste and approved disposal at a permitted RCRA Subtitle D landfill or a Washington State solid waste landfill permitted under Chapter 173-351 WAC. The soil was disposed of at Waste Management's Columbia Ridge Landfill, in Arlington, Oregon.

PERFORMANCE GROUNDWATER MONITORING AND SAMPLING

Two rounds of groundwater performance monitoring and sampling were conducted during the reporting period. The scope included water level monitoring in all shallow wells (40 total) and select deep wells, and sampling shallow wells, per the RAWP:

- December 2016 (two months after AS/SVE system startup) included eleven monitoring wells to evaluate conditions within and adjacent to the AS ZOI including MW-3, MW-4, MW-10, MW-11, MW-12, MW-13, MW-16, DC-3, DC-4, DC-10A, and KMW-2;

- March 2017 (approximately five months after AS/SVE system startup) included 25 monitoring wells on the properties including the eleven wells sampled in December 2016; 14 wells on Harris property including MW-2, MW-14, MW-15, DC-7, DC-8, DC-11, DC-12, DC-13, DC-14, DC-15, DC-17, DC-20, DC-18, and KMW-9; and five downgradient wells including MW-7, MW-9, KMW-3, KMW-7, and KMW-8.

The AS/SVE system was shut down approximately two days prior to collecting groundwater samples within the AS influence area during the December 2016 event and approximately three days prior to the March 2017 event. A summary of the well completion details is included as Attachment D-1.

Groundwater Level Monitoring

Groundwater level monitoring was conducted on December 13, 2016 and March 13, 2017 in all shallow monitoring wells and select deep wells. Depth to water was measured from the surveyed top of casing (TOC) to the nearest 0.01 foot using an electronic water level probe. A wood and brush pile covered DC-17 on December 13, 2016.

Groundwater Sampling

Groundwater samples were collected from December 13 to December 16, 2016 and from March 13 to March 17, 2017, using low-flow sampling techniques. For the December 2016 sampling event, a decontaminated Grundfos pump with new tubing was lowered into each well; for the March 2017 sampling event, a bladder pump with dedicated bladders was lowered into each well. Groundwater was purged prior to sample collection until parameters stabilized. Field parameters measured during sampling consisted of temperature, pH, specific conductance, DO, and oxidation reduction potential (ORP). The pump intake was set at approximately two feet below the static water level, generally consistent with previous sampling events.

Samples were collected into preserved 40-ml VOA sampling containers and submitted to ESC Lab Sciences (ESC) in Mt. Juliet, TN (an Ecology accredited laboratory) for analysis of VOCs by EPA Method 8260B.

Quality Assurance/Quality Control

One equipment blank sample was collected per sampling event following decontamination of the Grundfos and bladder pumps. The equipment blank samples were collected by pumping de-ionized water through the Grundfos pump and new tubing or through the bladder pump with a new bladder and into laboratory prepared sample containers. Trip blanks were included in the coolers and were returned to the ESC for VOC analysis. One field duplicate sample for the December 2016 event and two field duplicate samples for the March 2017 event were collected and submitted for VOC analysis.

GROUNDWATER MONITORNG RESULTS

Groundwater Monitoring

Water level measurements and groundwater elevations for the December 2016 and March 2017 sampling events are summarized in Tables 4 and 5, respectively, and field parameter measurements from the December 2016 and March 2017 sampling events are summarized in Tables 6 and 7, respectively. Groundwater elevations in the shallow wells on both properties ranged from 271.42 to 273.19 feet above North American Vertical Datum of 1988 (NAVD 88) in December 2016 and ranged from 272.56 to 274.36 feet NAVD 88 in March 2017, and were approximately 1.1 feet higher from the December 2016 to the March 2017 events, and the March 2017 water levels in most monitoring wells are near or at historical high elevations. Groundwater gradients during both sampling events were in the northerly direction and generally consistent with historical results. The gradient across the two properties varied between approximately 0.003 and 0.004 ft/ft, and the off-property gradient was approximately 0.027 ft/ft (estimated from KMW-7/KMW-8 to MW-9). The groundwater elevations and elevation contours are shown on Figures 4 and 5. A complete summary of historical groundwater elevations is included as Attachment D-2.

Groundwater Analytical Results

The laboratory analytical results from the December 2016 and March 2017 sampling events for PCE are summarized in Tables 8 and 9, respectively, and on Figures 4 and 5, respectively. A complete summary of historical PCE concentrations in groundwater monitoring wells is included as Attachment D-3.

The results from the December 2016 sampling event (11 wells) are summarized as follows:

- PCE was not detected at or above the method reporting limit of 1.0 micrograms per liter (µg/L) in wells MW-3, MW-4, MW-12, MW-13, DC-3, and DC-4;
- PCE was detected in wells MW-10, MW-16, and KMW-2 at concentrations below Ecology's Model Toxics Control Act (MTCA) Method A cleanup level (5 µg/L);
- PCE was detected above the cleanup level in wells MW-11 and DC-10A with concentrations of 7.99 and 10.8 µg/L, respectively; and
- PCE was not detected at or above the method reporting limits (MRLs) in any of the equipment blank and trip blank samples.

The results from the March 2017 sampling event (25 wells) are summarized as follows:

- PCE was not detected at or above the method reporting limit of 1.0 µg/L in wells MW-3, MW-4, MW-9, MW-12, MW-13, MW-14, MW-15, DC-4, and KMW-2;
- PCE was detected in wells MW-10, MW-11, MW-16, DC-3, DC-11, DC-12, DC-13, DC-18, DC-20, KMW-3, KMW-7, and KMW-9 at concentrations below Ecology's MTCA Method A cleanup level (5 µg/L);

- PCE was detected above the cleanup level in wells MW-2, MW-7, DC-7, DC-8, DC-10A, DC-14, DC-15, DC-17, and KMW-8 with concentrations ranging from 6.02 to 13.9 µg/L; and
- PCE was not detected at or above the MRLs in any of the equipment blank and trip blank samples.

Time trend plots showing the PCE concentration and water table elevation over time for wells MW-2, MW-7, DC-3, DC-4, DC-7, DC-8, DC-13, DC-14, DC-15, DC-17, and KMW-8 are presented in Attachment E. The time trend plots indicate the following:

- A correlation between PCE concentrations and water elevations (with increasing concentrations with higher water table elevations) is evident in all of the time trend plots except DC-4, DC-7, and DC-17. These wells are on the western side of the Harris property. DC-4 (1.00U µg/L) is within the AS ZOI. DC-7 (10.4 µg/L) and DC-17 (13.9 µg/L) are downgradient of the AS ZOI and PCE in March 2017 were both at all time low concentrations;

- PCE concentrations and groundwater elevations in wells in the central portion of the Harris property including MW-2, DC-15, DC-8, and downgradient MW-7 on Dunn Lumber property both increased since the previous sampling event. MW-2 (6.02 µg/L) increased to barely above the CUL in March 2017 for the first time since 2017. DC-15 (8.96 µg/L) remained above the CUL, and DC-8 (9.69 µg/L) and MW-7 (8.08 µg/L), overall, remained on their long term downward trends; and

- PCE concentrations and groundwater elevations in wells in the eastern portion of the Harris property including DC-13, DC-14, and downgradient KMW-8 in SW 178th Street both increased since the previous sampling event. DC-13 (4.32 µg/L) remained below the CUL, and DC--14 (6.20 µg/L) remained slightly above the CUL. KMW-8 (6.71 µg/L) has fluctuated above and below the CUL since October 2014.

Laboratory Data Validation

The laboratory analytical reports were validated in accordance with the USEPA guidelines for organic data review[3]. All of the data were judged to be acceptable for their intended use. Copies of the laboratory analytical reports and data validation memoranda are included in Attachment A.

SUMMARY AND CONCLUSIONS

The groundwater PCE concentrations within the air sparging area of influence have declined over the first 5 months of the AS/SVE system operations. Notable results include:

- Operating the AS/SVE system is resulting in decreased groundwater concentrations within the AS ZOI. Prior to starting the AS/SVE system DC-4, DC-10A, MW-11, and

[3] *USEPA Contract Laboratory Program National Functional Guidelines for Organic Data Review*. OSWER 9240.1-05A-P PB99-963506 EPA540/R-99/008, October.

KMW-2 were above the 5 µg/L PCE cleanup level between 5.49 and 17 µg/L. In March 2017, only DC-10A remained a little above the cleanup level at 8.62 µg/L. Monitoring wells DC-3, MW-3, MW-4, MW-10, MW-12, MW-13 remained below the cleanup level;

- Dissolved oxygen concentrations within the AS ZOI have increased from an average of 6.4 mg/L to 10.4 mg/L in monitoring wells;

- SVE-6 (1,490 µg/m^3) and SVE-7 (1,130 µg/m^3) behind Four Star Cleaners were the highest PCE concentrations in the SVE system in December 2016, and these concentrations were higher than their concentrations in 2013 (827 and 723 µg/m^3, respectively. SVE-6 is in the alley and is screened from 5 to 10 ft bgs, and SVE-7 is on Harris property and screened from 10 to 30 ft bgs. Both SVE-6 and SVE-7 are outside of the AS ZOI, and so it is unclear as to why the PCE concentrations have increased;

- SVE-16 (587 µg/m^3) had the highest PCE concentrations in a SVE well within the AS ZOI in December 2016; and

- Stack sampling indicated a general decrease in PCE concentrations over the reporting period. PCE concentrations initially decreased over the 4 week startup period (2,100 to 942 µg/m^3), and then dropped to between 248 and 477EJ µg/m^3 for the remainder of the reporting period.

Notable groundwater PCE results in monitoring wells outside the AS ZOI are as follows:

- Groundwater elevations were roughly 1.1 ft higher in March 2017 compared to December 2016, 2.0 ft higher compared to December 2015, and are near their highest recorded elevations. The elevated water levels in March 2017 were coincident with slight increases in PCE concentrations in several monitoring wells outside the AS influence area including MW-2 (6.02 µg/L), MW-7 (8.08 µg/L), DC-8 (9.69 µg/L), DC13 (4.32 µg/L), DC-14 (6.20 µg/L), DC-15 (8.96 µg/L), and KMW-8 (6.71 µg/L). PCE in MW-2, DC-13, and KMW-8 were at their highest concentrations since 2012. DC-13, although slightly increased, has been below the cleanup level since 2013; and

- Downgradient MW-7 (8.08 µg/L) on Dunn Lumber property and KMW-8 (6.71 µg/L) in SW 178th Street were the only wells off the property which were above the cleanup level. Both of these wells have an overall downward trend. The remaining downgradient wells remained below the cleanup level including KMW-3 (3.23 µg/L) and KMW-7 (1.17 µg/L) in SW 178th Street and MW-9 (1.00U µg//L) downgradient of Dunn Lumber.

PES appreciates the opportunity to conduct these groundwater monitoring activities. If you have any questions regarding this report, or need any additional information, please feel free to contact either of us at (206) 529-3980.

Sincerely,
PES ENVIRONMENTAL, INC.



Kelly L. Rankich
Project Engineer

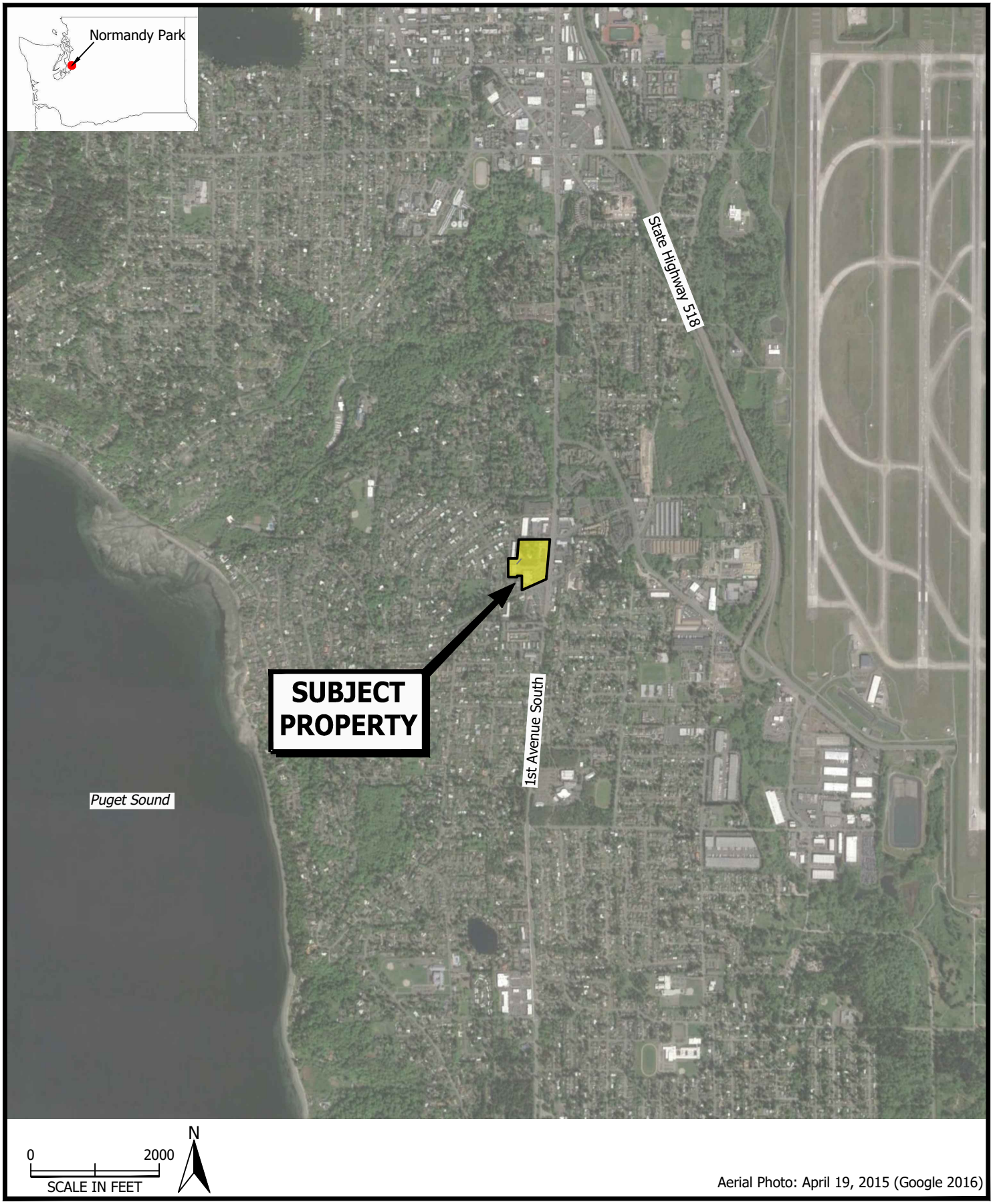


Matthew V. Dahl, P.E.
Senior Engineer

Attachments:

Figure 1– Site Location Map
Figure 2 – Site Plan
Figure 3 – Remediation Well Locations
Figure 4 – Groundwater Elevations and PCE Concentrations – December 2016
Figure 5 – Groundwater Elevations and PCE Concentrations – March 2017
Table 1 – SVE System Operation and Maintenance Data
Table 2 – AS System Operation and Maintenance Data
Table 3 – SVE Leg Monitoring and Analytical Data
Table 4 – Groundwater Elevations – December 2016
Table 5 – Groundwater Elevations – March 2017
Table 6 – Groundwater Field Parameters – December 2016
Table 7 – Groundwater Field Parameters – March 2017
Table 8 – Tetrachloroethene Concentrations in Groundwater – December 2016
Table 9 – Tetrachloroethene Concentrations in Groundwater – March 2017
Attachment A – O&M Charts and Summary Tables
Attachment B – Laboratory Analytical Reports and Data Validation Memoranda
Attachment C – Waste Disposal Documentation
Attachment D – Well Completion Details, Historical Groundwater Data Summaries
Attachment E – Time Trend Plots

ILLUSTRATIONS



PES Environmental, Inc.
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Subject Property Location Map
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE
1

1358.001.01.011	135800101011_17Q1_1-2	MVD	4/17
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

SW 176th STREET

RESIDENCES

SW 177th STREET

1st AVE SOUTH

RESIDENCES

DUNN LUMBER

DUNN LUMBER

FORMER WATER SUPPLY WELL

COMMERCIAL

SW 178th STREET

2nd AVE SW

TOWN HOUSES

RESIDENCE

RESIDENCE

HARRIS PROPERTY

COMMERCIAL BUILDING

VACANT SHED

WELL HOUSE

RETAINING WALL

FORMER TREATMENT SYSTEM

REMEDIATION EQUIPMENT ENCLOSURE

FORMER SEPTIC TANK

FORMER MANHATTAN DRY CLEANER AND LAUNDROMAT

SHED

PARKING LOT

RETAINING WALL

FORMER DAIRY QUEEN

SECOND BUILDING (VARIOUS SHOPS)

FOUR STAR DRY CLEANERS

DAY CARE

MANHATTAN VILLAGE SHOPPING CENTER

PARKING LOT

QFC BUILDING

FORMER SEPTIC TANK

EXPLANATION

- Approximate Property Boundary
- SS — Sanitary Sewer
- SD — Storm Drain
- G — Natural Gas
- W — Water
- E — Overhead Electrical
- E — Buried Electrical
- T — Telephone

0 N 100

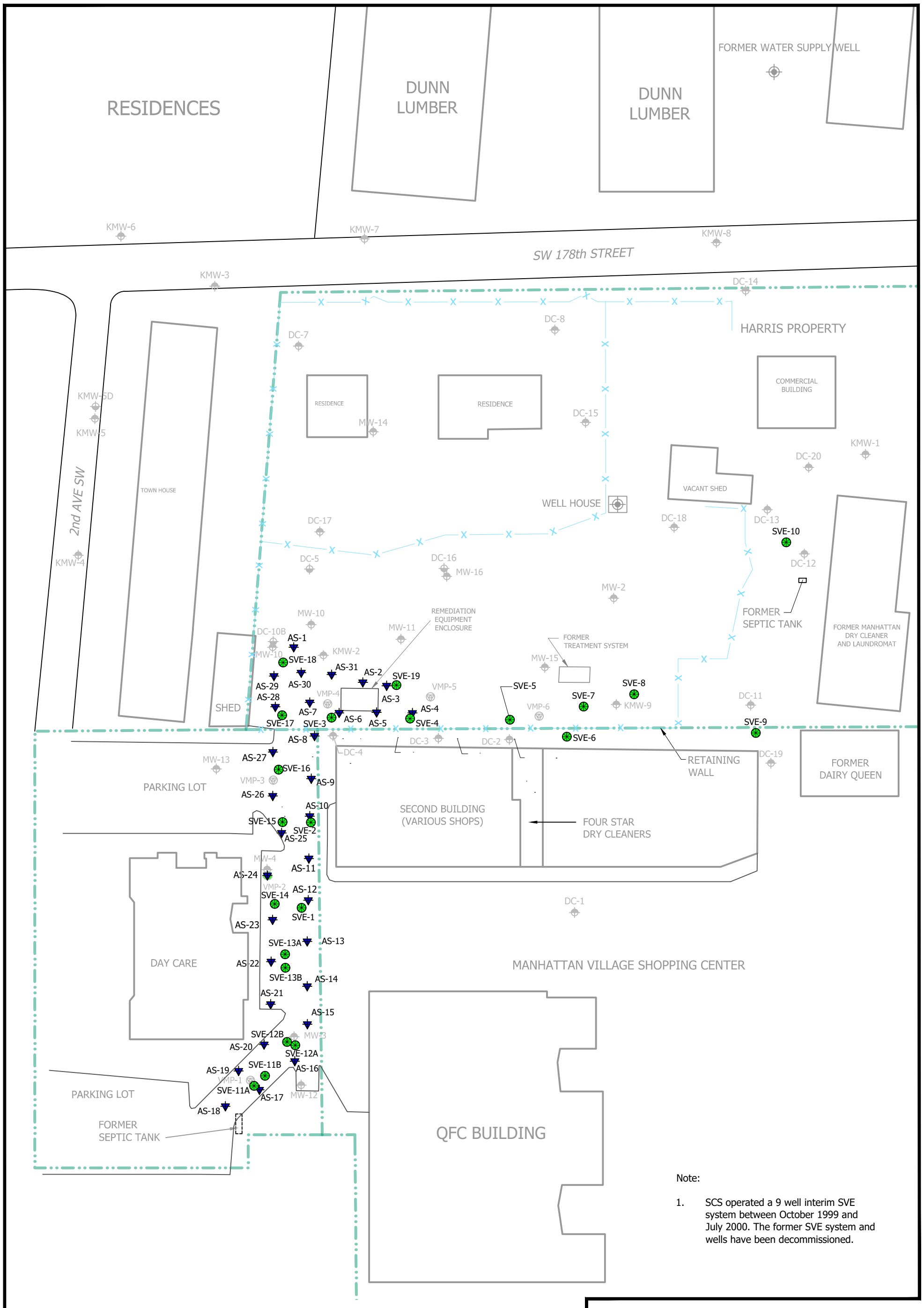
SCALE IN FEET

PES Environmental, Inc.
Engineering & Environmental Services

Site Plan
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE 2

1358.001.01.011	135800101011_17Q1_1-2	MVD	4/17
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE



Note:

1. SCS operated a 9 well interim SVE system between October 1999 and July 2000. The former SVE system and wells have been decommissioned.

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Remediation Well Locations
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE
3

1358.001.01.011	135800101011_17Q1_3	MVD	4/17
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

SW 176th STREET

1st AVE SOUTH

2nd AVE SW

SW 177th STREET

SW 178th STREET

RESIDENCES

RESIDENCES

RESIDENCE

RESIDENCE

HARRIS PROPERTY

COMMERCIAL BUILDING

VACANT SHED

WELL HOUSE

DUNN LUMBER

DUNN LUMBER

WATER SUPPLY WELL

FORMER TREATMENT SYSTEM

FORMER SEPTIC TANK

FORMER LAUNDROMAT/ DRY CLEANER

FORMER DAIRY QUEEN

RETAINING WALL

CONDOMINIUMS

PARKING LOT

SECOND BUILDING (VARIOUS SHOPS)

FOUR STAR DRY CLEANERS

DAY CARE

MANHATTAN VILLAGE SHOPPING CENTER

QFC BUILDING

SUSPECTED SEPTIC TANK

(253.73) MW-9 NS

(269.28) MW-8 NS

(264.85) MW-7 NS

MW-6 (267.65) NS

(271.28) KMW-6

(271.03) KMW-7

KMW-8 NS (271.23)

(271.23) KMW-3 NS

(271.52) DC-8 NS

DC-14 (271.54) NS

MW-5 (271.58) NS

NS DC-7 (271.42)

KMW-5D

(271.70) KMW-5 NS

NS MW-14 (271.92)

DC-15 (271.98) NS

KMW-1 (272.23) NS

NS DC-20 (272.23)

DC-13 NS (272.31)

NS DC-17 (NM)

KMW-4 (272.33) NS

DC-5

DC-16 1.63 (272.25) MW-16

DC-6

NS DC-18 (272.16)

(272.45) DC-12 NS

MW-1

NS MW-2 (272.25)

MW-10 1.13 (272.30)

DC-9A

DC-9B

DC-10B

DC-10A (272.38)

KMW-2 (272.34) 1.18

MW-11 (272.29) 7.99

MW-15 (272.54) NS

NS DC-11 (272.69)

NS KMW-9 (272.54)

(272.62) MW-13 <1.00

DC-4 (272.51) <1.00

DC-3 (272.52) <1.00

DC-2 (272.56) NS

(272.89) NS DC-19

MW-4 (273.11) <1.00

DC-1 (273.19) NS

<1.00 MW-3 (272.97)

<1.00 MW-12 (273.10)

254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273

N

0 100

SCALE IN FEET

EXPLANATION

- Approximate Property Boundary
- DC-6 Missing or Destroyed Monitoring Well
- DC-9B Abandoned Monitoring Well
- MW-12 Shallow Monitoring Well
- DC-16 Deep Monitoring Well
- (273.10) Groundwater-Level Elevation in feet NAVD 88 on December 3, 2016
- 272 Generalized Groundwater Elevation Contour
- * Groundwater Elevation from groundwater sampling used for contouring
- NM Elevation Not Measured
- Estimated Groundwater Flow Direction
- 7.99 Tetrachloroethene (PCE) concentration in micrograms per liter, detected at or above the MTCA Method A cleanup level
- 1.09 PCE detected below the MTCA Method A cleanup level
- <1.00 PCE not detected at or above the indicated method reporting limit (MRL)
- NS Not Sampled

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Groundwater Elevations and PCE Concentrations – December 2016
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE 4

1358.001.01.011	135800101011_17Q1_4	MVD	4/17
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

(254.77)
MW-9
<1.00
SW 176th STREET
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
RESIDENCES
(270.38)
MW-8
NS
SW 177th STREET
(265.85)
MW-7
8.08
NS
MW-6
(268.46)
1st AVE SOUTH
DUNN LUMBER
DUNN LUMBER
WATER SUPPLY WELL
RESIDENCES
NS
(272.47)
KMW-6
1.17
(272.45)
KMW-7
KMW-8 6.71
(272.21)
SW 178th STREET
(272.59)
KMW-3
3.23
10.4
DC-7
(272.58)
(272.58)
DC-8
9.69
DC-14
(272.56)
6.20
MW-5
(272.58)
NS
HARRIS PROPERTY
COMMERCIAL BUILDING
RESIDENCE
RESIDENCE
KMW-5D
(272.80)
KMW-5
NS
<1.00
MW-14
(273.09)
DC-15
(273.07)
8.96
2.00
DC-20
(273.27)
KMW-1
(273.25)
NS
VACANT SHED
WELL HOUSE
3.24
DC-13
4.32
(273.38)
2nd AVE SW
13.9
DC-17
(273.36)
DC-18
(273.25)
KMW-4
(273.67)
NS
DC-5
DC-16
1.13
(273.45)
MW-16
(273.53)
DC-12
2.02
MW-1
DC-6
6.02
MW-2
(273.41)
MW-10 1.09
(273.56)
DC-9A
DC-9B
FORMER TREATMENT SYSTEM
FORMER SEPTIC TANK
FORMER LAUNDROMAT/ DRY CLEANER
DC-10B
DC-10A
(273.64)
8.62
KMW-2
(273.62)
<1.00
MW-11
(273.51)
4.66
MW-15
(273.72)
<1.00
2.07
KMW-9
(273.68)
1.97
DC-11
(273.76)
CONDOMINIUMS
(273.97)
MW-13
<1.00
PARKING LOT
DC-4
(273.76)
<1.00
DC-3
(273.72)
2.11
DC-2
(273.73)
NS
RETAINING WALL
(273.97)
NS
DC-19
FORMER DAIRY QUEEN
SECOND BUILDING (VARIOUS STORES)
FOUR STAR DRY CLEANERS
MW-4
(274.05)
<1.00
DC-1
(274.36)
NS
DAY CARE
MANHATTAN VILLAGE SHOPPING CENTER
<1.00
MW-3
(274.32)
<1.00
MW-12
(274.41)
QFC BUILDING
SUSPECTED SEPTIC TANK
N
0
100
SCALE IN FEET

EXPLANATION

- Approximate Property Boundary
- DC-6 Missing or Destroyed Monitoring Well
- DC-9B Abandoned Monitoring Well
- MW-12 Shallow Monitoring Well
- DC-16 Deep Monitoring Well
- (274.41) Groundwater-Level Elevation in feet NAVD 88 on March 13, 2017
- 272 Generalized Groundwater Elevation Contour
- * Groundwater Elevation from groundwater sampling used for contouring
- NM Elevation Not Measured
- Estimated Groundwater Flow Direction
- 6.02 Tetrachloroethene (PCE) concentration in micrograms per liter, detected at or above the MTCA Method A cleanup level
- 1.09 PCE detected below the MTCA Method A cleanup level
- <1.00 PCE not detected at or above the indicated method reporting limit (MRL)
- NS Not Sampled

PES Environmental, Inc.
Engineering & Environmental Services

Groundwater Elevations and PCE Concentrations – March 2017
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

FIGURE 5

1358.001.01.011	135800101011_17Q1_5	MVD	4/17
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

TABLES

Table 1
SVE System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington

Date	Time	Operating Days (days)	System Down Time (days)	Electric Meter (KWH)	Blower				Vacuum		SVE Wells[6]	Stack				PCE Removal Rate[4] (lb/day)	PCE Mass Removed[5] (lbs)	Condensate		Notes
					Speed (hz)	Electric Meter (KWH)	Run Time (hr)	Temp. Out (deg F)	Blower (in. w.c.)	Manifold (in. w.c.)		DP (in. w.c.)	Flow[1] (scfm)	VOC[2] (ppm)	Lab PCE[3] (µg/m^3)			DAT Tank (gal)	Holding Tank (gal)	
10/19/16	-	-	-	-	-	-	-	-	-	-		-	-	-	-	-	97.5	-	-	per PES previous O&M Data Tables
10/19/16	11:30	0	-	-	51	-	-	85	42	19	1 to 19	2.25	830	-	-	-	-	-	-	SVE system startup, balance wells
10/21/16	-	2	-	-	50	-	-	85	48	25	1 to 19	2.10	800	2.96	-	-	-	-	-	AS system startup, balance wells, noise testing
10/25/16	10:32	6	-	1,274	51	1,285	159	86	42	20	1 to 19	2.15	830	2.39	2,100	0.157	98.5	169	90	Balance SVE and AS wells, stack TO-15 sample
11/2/16	9:00	14	-	-	51	2,859	349	85	45	20	1 to 19	2.3	840	2.51	1,310	0.099	99.6	92	160	Startup monitoring, stack TO-15 sample
11/10/16	10:30	22	-	-	51	4,318	390	80	35	15	1 to 19	2.5	880	1.25	966	0.076	99.7	-	325	Startup monitoring, stack TO-15 sample
11/16/16	10:30	28	-	-	51	5,418	688	80	35	16	1 to 19	2.0	790	2.57	942	0.067	100.6	60	340	Startup monitoring, stack TO-15 sample
11/23/16	9:00	35	-	-	51	6,655	853	75	30	15	1 to 19	-	-	0.86	-	-	-	120	425	Check AS, clean debris from transfer pump
11/30/16	7:00	42	-	-	51	7,914	1,020	75	33	10	1 to 19	2.0	790	-	-	-	-	75	490	Check AS, clean debris from transfer pump
12/12/16	9:00	54	-	3,398	51	10,209	1,312	75	35	10	1 to 19	2.4	860	1.31	4,600	0.356	106.1	10	580	O&M, stack TO-15 sample, shutdown for GW sampling
12/15/16	-	57	3	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Restarted system after GW sampling
12/20/16	8:00	62	-	3,704	51	11,115	1,430	75	34	9	1 to 19	2.0	790	-	-	-	-	90	520	Changed blower and compressor oil, check belts
12/28/16	-	70	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	750	Respond to DAT Alarm, reset, system operatiing
1/1/17	-	70	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	System down on power outage alarm
1/3/17	13:35	70	2	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Responded to alarm, system off - frozen equipment
1/9/17	12:15	70	9	4,444	51	13,211	1,723	65	30	8	1 to 19	2.3	850	-	-	-	-	80	825	Test and restart system after power outage
1/10/17	9:45	71	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	System check after restart
1/18/17	11:00	79	-	4,976	51	14,751	1,936	75	32	6	1 to 19	2.3	845	0.51	359	0.027	111.1	0	5	O&M and TO-15 sample, condensate disposal
1/29/17	-	90	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Reset alarm, system running
2/1/17	6:45	93	-	5,801	51	17,171	2,269	70	32	10	1 to 19	2.2	-	-	-	-	-	85	220	Install check valve, repair transfer pump leak
2/6/17	5:20	97	1	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Power outage. Restarted system.
2/14/17	11:00	97	-	6,558	51	19,370	2,573	75	32	2	1 to 19	2.3	845	1.14	248	0.019	111.7	85	350	O&M , stack TO-15 sample, clean level switches
2/16/17	15:30	99	-	6,685	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	140	365	System check
3/2/17	-	113	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Respond to DAT Alarm, reset, system operatiing
3/10/17	9:00	121	-	8,006	51	23,567	3,146	75	35	26	1 to 19	2.3	845	0.17	275	0.021	112.2	100	565	O&M, stack TO-15 sample,shutdown for GW sampling
3/17/17	-	121	7	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Restarted system after GW sampling
4/8/17	9:40	143	1	9,229	-	27,115	3,653	75	30	24	1 to 19	2.3	845	-	-	-	-	95	670	Power bump/surge, blower low flow alarm, restarted
4/20/17	12:00	155	-	10,022	51	29,101	3,942	75	32	25	1 to 19	2.4	865	0.34	6,100 J	0.474	120.4	93	670	O&M , stack TO-15 sample
4/22/17	-	-	-	-	-	-	-	-	-	-	1 to 19	-	-	-	-	-	-	-	-	Power bump/surge, blower low flow alarm
4/23/17	15:40	157	1	10,136	51	29,398	3,985	75	30	25	1 to 19	2.3	845	-	-	-	-	92	670	Restarted system

Notes:

1. Calculated flow rate based on velocity measurements in feet per minute, converted to cfm based on pipe cross sectional area, and normalized to standard conditions
2. As measured with a photoionization detector (PID) adjusted using 0.57 correction factor for PCE
3. SVE system discharge samples analyzed for VOCs using United States Environmental Protection Agency Method TO-15; see laboratory reports for the complete analytical list.
4. Mass Removal Rate = [flow (scfm) * PCE (µg/m$^{3)}$ * 28.3168 (L/cf) / 1,000 (L/m^3) / 453,592,370 (µg/lb) * 60 (min/hour) * 24 (hour/day)]
5. Cumulative mass removed = average mass removal rates from previous and current O&M visit * period run time
6. SVE wells operating. The numbers refer to the SVE well number: SVE-1, SVE-2, SVE-3, SVE-4, SVE-5, SVE-6, SVE-7, SVE-8, SVE-9, SVE-10, SVE-11a, SVE-11b, SVE-12a, SVE-12b, SVE-13a, SVE-14, SVE-15, SVE-16, SVE-17, SVE-18, and SVE-19.

KWH = Kilowatt Hours
in. w.c. = inches of water column
scfm = standard cubic feet per minute
deg F = degrees Fahrenheit
NM = not measured
PCE = tetrachloroethene
ppm = parts per million
DAT = diffused aeration tank
VOC = Volatile Organic Compounds
µg/m^3 = micrograms per cubic meter
lb/day = pounds per day
Temp. = Temperature
DP = Differential Pressure
J = estimated value

Table 2
AS System Operation and Maintenance Data
Manhattan Village/Harris Properties
Normandy Park, Washington

	Air Sparging System							
				Electric	Run	Compressor	Heat Exchanger	
Date	Operating Wells[1]	Flow[2] (scfm)	Speed (hz)	Meter (KWH)	Time (hr)	Temp (deg F)	Temp (deg F)	Pressure (psi)
10/19/16	-	-	-	-	-	-	-	-
10/21/16	1 to 31	286	-	-	-	-	-	-
10/25/16	1 to 31	274	43.2	1,482	110	180	77	6.5
11/2/16	1 to 31	282	43.2	4,210	301	174	68	8.0
11/10/16	1 to 31	285	43.2	7,052	301	175	69	8.0
11/16/16	1 to 31	288	43.2	9,151	639	160	66	8.0
11/23/16	1 to 31	291	43.2	11,552	805	175	66	8.0
11/30/16	1 to 31	288	43.2	13,994	942	170	66	8.0
12/12/16	1 to 31	292	43.2	18,335	1,264	170	62	8.0
12/15/16	1 to 31	-	-	-	-	-	-	-
12/20/16	1 to 31	-	43.2	20,104	1,381	160	64	8.0
12/28/16	1 to 31	-	-	-	-	-	-	-
1/1/17	1 to 31	-	-	-	-	-	-	-
1/3/17	1 to 31	-	-	-	-	-	-	-
1/9/17	1 to 31	287	43.2	24,365	1,674	160	60	9.0
1/10/17	1 to 31	-	-	-	-	-	-	-
1/18/17	1 to 31	276	43.2	27,488	1,887	175	70	9.0
1/29/17	1 to 31	-	-	-	-	-	-	-
2/1/17	1 to 31	298	43.2	32,282	2,219	152	52	8.0
2/6/17	1 to 31		-	-	-	-	-	-
2/14/17	1 to 31	286	43.2	36,737	2,523	170	64	8.0
2/16/17	1 to 31	-	-	-	-	-	-	-
3/2/17	1 to 31	-	-	-	-	-	-	-
3/10/17	1 to 31	286	43.2	45,280	3,096	175	66	8.0
3/17/17	1 to 31	-	-	-	-	-	-	-
4/8/17	1 to 31	-	43.2	53,033	3,603	175	68	8.0
4/20/17	1 to 31	273	43.2	57,418	3,892	180	77	7.0
4/22/17	1 to 31	-	-	-	-	-	-	-
4/23/17	1 to 31	-	43.2	58,074	3,935	180	68	8.5

Notes:

1. The numbers refer to the AS well number
2. Calculated flow rate based on the sum of the individual AS leg meter readings, normalized to standard conditions.

psi = pounds per square inch
hz = Hertz
KWH = Kilowatt Hours
hr = hour
scfm = standard cubic feet per minute
HEX = heat exchange
deg F = degrees Fahrenheit

Table 3
SVE Leg Monitoring and Analytical Data
Manhattan Village/Harris Properties
Normandy Park, Washington

SVE Well	Date	Velocity (fpm)	Vacuum (in.w.c.)	Temp. (deg F)	Flow[1] (scfm)	PID (ppmv)	Sample ID	Lab PCE[2] (µg/m^3)
SVE-1	12/12/16	2,600	12	60	46	1.0	SVE-1-121216	499
SVE-2	12/12/16	2,700	15	60	47	0.2	SVE-2-121216	374
SVE-3	12/12/16	2,500	10	60	44	0.0	SVE-3-121216	338
SVE-4	12/12/16	1,750	5	60	32	1.0	SVE-4-121216	332
SVE-5	12/12/16	1,700	5	60	31	0.5	SVE-5-121216	716
SVE-6	12/12/16	1,700	12	60	30	0.1	SVE-6-121216	1,490
SVE-7	12/12/16	1,700	4	60	31	1.9	SVE-7-121216	1,130
SVE-8	12/12/16	1,650	4.5	60	30	3.1	SVE-8-121216	703
SVE-9	12/12/16	2,000	4	60	36	0.6	SVE-9-121216	379
SVE-10	12/12/16	2,800	14	60	49	1.1	SVE-10-121216	398
SVE-11A	12/12/16	2,000	15	60	35	2.0	SVE-11A-121216	136
SVE-11B	12/12/16	2,650	15	60	47	2.2	SVE-11B-121216	149
SVE-12A	12/12/16	1,300	15	60	23	1.2	SVE-12A-121216	217
SVE-12B	12/12/16	2,750	15	60	48	1.3	SVE-12B-121216	295
SVE-13A	12/12/16	2,700	10	60	48	1.4	SVE-13A-121216	145
SVE-13B	12/12/16	2,650	13	60	47	1.4	SVE-13B-121216	241
SVE-14	12/12/16	2,100	12	60	37	2.0	SVE-14-121216	144
SVE-15	12/12/16	2,000	14	60	35	1.1	SVE-15-121216	373
SVE-16	12/12/16	2,000	13	60	35	1.6	SVE-16-121216	587
SVE-17	12/12/16	2,450	16	60	43	0.0	SVE-17-121216	65.1
SVE-18	12/12/16	2,400	16	60	42	0.0	SVE-18-121216	380
SVE-19	12/12/16	2,500	15	60	44	0.0	SVE-19-121216	147
				Total Flow	860		SYS-121216	288

Air Sparging Flow	292	scfm
Ratio of SVE to AS	2.2	
Average SVE flow within AS ZOI	41	scfm
Average SVE flow outside AS ZOI	34	scfm

Notes:

1. Flow calculated for 2" diameter Sch 40 PVC pipe = velocity (fpm) x 0.023 sq.ft. cross section area, then normalized to standard conditions, and adjusted for the total SVE flow at the stack.
2. Samples analyzed for VOCs using USEPA Method TO-15; see laboratory reports for the complete analytical list.
3. SVE wells inside AS ZOI: SVE-1, SVE-2, SVE-3, SVE-4, SVE-11A, SVE-11B, SVE-12A, SVE-12B, SVE-13A, SVE-13B, SVE-14, SVE-15, SVE-16, SVE-17, SVE-18, and SVE-19.

scfm = standard cubic feet per minute	lb/yr = pounds per year
fpm = feet per minute	PID = photoionization detector
in.w.c. = inches of water column	AS = air sparging
deg F = degrees Fahrenheit	ZOI = zone of influence

Table 4

Groundwater Elevations - December 2016
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Monument Type	Top of Casing Elevation (feet, NAVD88)	Screened Interval Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet, NAVD88)
Shallow Monitoring Wells						
MW-2	12/13/2016	Flush	308.34	32.22-42.22	36.09	272.25
MW-3	12/13/2016	Flush	311.41	35.67-45.67	38.44	272.97
MW-4	12/13/2016	Flush	310.47	33.45-43.45	37.36	273.11
MW-5	12/13/2016	Flush	310.38	35.6-45.6	38.80	271.58
MW-6	12/13/2016	Flush	304.14	34.46-44.46	36.49	267.65
MW-7	12/13/2016	Flush	302.64	34.47-44.47	37.79	264.85
MW-8	12/13/2016	Flush	280.68	12.71-22.71	11.40	269.28
MW-9	12/13/2016	Flush	284.97	31.6-41.6	31.24	253.73
MW-10	12/13/2016	Flush	306.71	31.52-41.52	34.41	272.30
MW-11	12/13/2016	Flush	307.62	31.56-41.56	35.33	272.29
MW-12	12/13/2016	Flush	312.80	35.7-45.7	39.70	273.10
MW-13	12/13/2016	Flush	308.75	34.58-44.58	36.13	272.62
MW-14	12/13/2016	Flush	303.82	27.6-37.6	31.90	271.92
MW-15	12/13/2016	AG	312.44	37.14-47.14	39.90	272.54
MW-16	12/13/2016	AG	310.37	29.45-44.65	38.12	272.25
DC-1	12/13/2016	Flush	312.82	39.5-44.5	39.63	273.19
DC-2	12/13/2016	Flush	312.92	41.22-46.22	40.36	272.56
DC-3	12/13/2016	Flush	313.11	42.32-47.32	40.59	272.52
DC-4	12/13/2016	Flush	312.35	43.36-48.36	39.84	272.51
DC-7	12/13/2016	Flush	302.61	34.35-39.35	31.19	271.42
DC-8	12/13/2016	Flush	306.23	36.64-41.64	34.71	271.52
DC-10A	12/13/2016	Flush	307.73	32.01-37.01	35.35	272.38
DC-11	12/13/2016	Flush	311.25	31.6-41.6	38.56	272.69
DC-12	12/13/2016	Flush	311.25	31.7-41.7	38.80	272.45
DC-13	12/13/2016	Flush	310.20	31.7-41.7	37.89	272.31
DC-14	12/13/2016	Flush	308.94	34.4-44.4	37.40	271.54
DC-15	12/13/2016	Flush	307.89	30.7-40.7	35.91	271.98
DC-17	12/13/2016	Flush	305.16	29.81-39.81	--	--
DC-18	12/13/2016	Flush	309.51	31.58-41.58	37.35	272.16
DC-19	12/13/2016	Flush	313.62	36.8-46.8	40.73	272.89
DC-20	12/13/2016	Flush	310.92	33.8-43.8	38.69	272.23
KMW-1	12/13/2016	Flush	311.59	36.8-51.8	39.36	272.23
KMW-2	12/13/2016	Flush	307.04	29.91-39.91	34.70	272.34
KMW-3	12/13/2016	Flush	296.92	24.6-34.6	25.69	271.23
KMW-4	12/13/2016	Flush	299.57	23.79-33.79	27.24	272.33
KMW-5	12/13/2016	Flush	297.22	23.66-33.66	25.52	271.70

Table 4

Groundwater Elevations - December 2016
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Monument Type	Top of Casing Elevation (feet, NAVD88)	Screened Interval Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet, NAVD88)
Shallow Monitoring Wells						
KMW-6	12/13/2016	Flush	294.81	25.73-40.73	23.53	271.28
KMW-7	12/13/2016	Flush	301.43	28.78-43.78	30.40	271.03
KMW-8	12/13/2016	Flush	308.15	28.69-43.69	36.92	271.23
KMW-9	12/13/2016	Flush	310.33	33.5-43.5	37.79	272.54
Deep Monitoring Wells						
DC-5	12/13/2016	Flush	306.25	40.79-45.79	33.95	272.30
DC-10B	12/13/2016	Flush	307.66	44.91-49.91	35.45	272.21
DC-16	12/13/2016	Flush	307.12	49.3-59.3	35.15	271.97
KMW-5D	12/13/2016	Flush	296.94	40.72-45.72	25.40	271.54

NOTES:

1. '-- = not measured or not applicable.
2. Well monument types: flush grade monuments and above ground (AG) monuments.
3. Depth to water is measured from top of well casing.
4. Elevations are reported relative to North American Vertical Datum of 1988 (NAVD 88).
5. Top of casing (TOC) elevations were surveyed by D.R. Strong Consulting Engineers, Inc. in February and May 2013 and by Lanktree Land Surveying, Inc. in July 2015.
6. Screened interval depth is estimated using from surveyed elevations (top of casing elevations, ground surface, and monument rim) and field measurements at the time of drilling.
7. Screened intervals completely submerged are shaded.

Table 5

Groundwater Elevations - March 2017
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Monument Type	Top of Casing Elevation (feet, NAVD88)	Screened Interval Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet, NAVD88)
Shallow Monitoring Wells						
MW-2	3/13/2017	Flush	308.34	32.22-42.22	34.93	273.41
MW-3	3/13/2017	Flush	311.41	35.67-45.67	37.09	274.32
MW-4	3/13/2017	Flush	310.47	33.45-43.45	36.42	274.05
MW-5	3/13/2017	Flush	310.38	35.6-45.6	37.80	272.58
MW-6	3/13/2017	Flush	304.14	34.46-44.46	35.68	268.46
MW-7	3/13/2017	Flush	302.64	34.47-44.47	36.79	265.85
MW-8	3/13/2017	Flush	280.68	12.71-22.71	10.30	270.38
MW-9	3/13/2017	Flush	284.97	31.6-41.6	30.20	254.77
MW-10	3/13/2017	Flush	306.71	31.52-41.52	33.15	273.56
MW-11	3/13/2017	Flush	307.62	31.56-41.56	34.11	273.51
MW-12	3/13/2017	Flush	312.80	35.7-45.7	38.39	274.41
MW-13	3/13/2017	Flush	308.75	34.58-44.58	34.78	273.97
MW-14	3/13/2017	Flush	303.82	27.6-37.6	30.73	273.09
MW-15	3/13/2017	AG	312.44	37.14-47.14	38.72	273.72
MW-16	3/13/2017	AG	310.37	29.45-44.65	36.92	273.45
DC-1	3/13/2017	Flush	312.82	39.5-44.5	38.46	274.36
DC-2	3/13/2017	Flush	312.92	41.22-46.22	39.19	273.73
DC-3	3/13/2017	Flush	313.11	42.32-47.32	39.39	273.72
DC-4	3/13/2017	Flush	312.35	43.36-48.36	38.59	273.76
DC-7	3/13/2017	Flush	302.61	34.35-39.35	30.03	272.58
DC-8	3/13/2017	Flush	306.23	36.64-41.64	33.65	272.58
DC-10A	3/13/2017	Flush	307.73	32.01-37.01	34.09	273.64
DC-11	3/13/2017	Flush	311.25	31.6-41.6	37.49	273.76
DC-12	3/13/2017	Flush	311.25	31.7-41.7	37.72	273.53
DC-13	3/13/2017	Flush	310.20	31.7-41.7	36.82	273.38
DC-14	3/13/2017	Flush	308.94	34.4-44.4	36.38	272.56
DC-15	3/13/2017	Flush	307.89	30.7-40.7	34.82	273.07
DC-17	3/13/2017	Flush	305.16	29.81-39.81	31.80	273.36
DC-18	3/13/2017	Flush	309.51	31.58-41.58	36.26	273.25
DC-19	3/13/2017	Flush	313.62	36.8-46.8	39.65	273.97
DC-20	3/13/2017	Flush	310.92	33.8-43.8	37.65	273.27
KMW-1	3/13/2017	Flush	311.59	36.8-51.8	38.34	273.25
KMW-2	3/13/2017	Flush	307.04	29.91-39.91	33.42	273.62
KMW-3	3/13/2017	Flush	296.92	24.6-34.6	24.33	272.59
KMW-4	3/13/2017	Flush	299.57	23.79-33.79	25.90	273.67
KMW-5	3/13/2017	Flush	297.22	23.66-33.66	24.30	272.92

Table 5

Groundwater Elevations - March 2017
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Monument Type	Top of Casing Elevation (feet, NAVD88)	Screened Interval Depth (feet)	Depth to Water (feet)	Groundwater Elevation (feet, NAVD88)
Shallow Monitoring Wells						
KMW-6	3/13/2017	Flush	294.81	25.73-40.73	22.34	272.47
KMW-7	3/13/2017	Flush	301.43	28.78-43.78	28.98	272.45
KMW-8	3/13/2017	Flush	308.15	28.69-43.69	35.94	272.21
KMW-9	3/13/2017	Flush	310.33	33.5-43.5	36.65	273.68
Deep Monitoring Wells						
DC-5	3/13/2017	Flush	306.25	40.79-45.79	32.7	273.55
DC-16	3/13/2017	Flush	307.12	49.3-59.3	34.80	272.32
KMW-5D	3/13/2017	Flush	296.94	40.72-45.72	25.19	271.75

NOTES:

1. '-- = not measured or not applicable.
2. Well monument types: flush grade monuments and above ground (AG) monuments.
3. Depth to water is measured from top of well casing.
4. Elevations are reported relative to North American Vertical Datum of 1988 (NAVD 88).
5. Top of casing (TOC) elevations were surveyed by D.R. Strong Consulting Engineers, Inc. in February and May 2013 and by Lanktree Land Surveying, Inc. in July 2015.
6. Screened interval depth is estimated using from surveyed elevations (top of casing elevations, ground surface, and monument rim) and field measurements at the time of drilling.
7. Screened intervals completely submerged are shaded.

Table 6

Groundwater Field Parameters - December 2016
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Depth to Water (feet TOC)	pH (units)	Specific Conductivity (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
Shallow Monitoring Wells							
MW-2	12/14/2016	38.41	6.17	196	16.9	5.9	97
MW-3	12/14/2016	38.41	6.50	124	14.7	9.6	241
MW-4	12/14/2016	37.65	6.49	137	13.2	10.3	256
MW-10	12/14/2016	34.40	6.53	133	12.2	10.1	242
MW-11	12/15/2016	35.27	6.08	143	14.1	9.9	288
MW-12	12/14/2016	39.63	6.36	179	6.3	11.8	257
MW-13	12/13/2016	36.13	6.51	215	17.6	10.4	220
MW-16	12/13/2016	38.12	6.30	215	12.3	10.6	232
DC-3	12/14/2016	40.55	6.37	182	10.1	10.5	245
DC-10A	12/16/2016	35.36	6.32	210	13.1	10.0	276
KMW-2	12/15/2016	34.50	6.37	198	14.1	9.0	279

NOTES:

1. TOC = top of casing.
2. units: pH standard units reported to 0.01.
3. µS/cm = microsiemens per centimeter @ 25 degrees Celsius (°C).
4. Dissolved Oxygen (DO) reported to 0.1 milligrams per liter (mg/L).
5. ORP = oxidation-reduction potential.
6. mV = millivolts.

Table 7

Groundwater Field Parameters - March 2017
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Depth to Water (feet TOC)	pH (units)	Specific Conductivity (µS/cm)	Temp (°C)	DO (mg/L)	ORP (mV)
Shallow Monitoring Wells							
MW-2	3/13/2017	34.93	6.31	192	11.9	8.9	36
MW-3	3/13/2017	37.10	6.85	132	12.2	11.9	28
MW-4	3/14/2017	36.37	6.99	135	12.4	10.8	44
MW-7	3/17/2017	36.68	6.33	223	12.0	8.6	44
MW-9	3/13/2017	30.19	6.23	173	11.9	8.2	45
MW-10	3/14/2017	33.20	6.60	132	12.2	12.2	46
MW-11	3/16/2017	34.26	6.83	152	12.8	9.8	191
MW-12	3/13/2017	38.39	7.34	209	12.0	12.3	14
MW-13	3/14/2017	34.71	6.30	206	12.6	9.1	57
MW-14	3/14/2017	30.70	6.42	202	12.6	11.5	51
MW-15	3/14/2017	38.66	6.14	166	12.6	8.7	59
MW-16	3/16/2017	36.85	6.89	168	11.7	9.0	174
DC-3	3/14/2017	39.40	6.54	253	13.1	11.3	44
DC-4	3/14/2017	38.54	6.78	313	12.8	12.2	43
DC-7	3/17/2017	29.96	6.46	221	11.4	10.3	52
DC-8	3/16/2017	33.60	6.63	99	11.8	--	173
DC-10A	3/17/2017	34.00	6.36	179	11.9	10.8	53
DC-11	3/15/2017	37.41	7.49	149	13.3	8.9	87
DC-12	3/15/2017	38.60	7.09	206	12.0	--	162
DC-13	3/15/2017	36.87	6.57	130	11.9	--	167
DC-14	3/16/2017	36.62	6.78	155	12.3	--	183
DC-15	3/16/2017	34.63	6.50	169	11.1	--	178
DC-17	3/17/2017	31.53	6.16	145	11.3	10.2	65
DC-18	3/16/2017	36.22	6.81	145	12.3	10.3	175
DC-20	3/15/2017	37.60	6.78	193	12.4	--	150
KMW-2	3/14/2017	33.42	6.60	132	12.3	11.8	46
KMW-3	3/14/2017	24.50	6.29	193	12.5	8.8	55
KMW-7	3/16/2017	29.25	6.68	140	11.8	--	166
KMW-8	3/16/2017	37.85	6.55	163	11.8	--	166
KMW-9	3/15/2017	36.60	7.91	218	12.6	7.3	66

NOTES:

1. TOC = top of casing.
2. units: pH standard units reported to 0.01.
3. µS/cm = microsiemens per centimeter @ 25 degrees Celsius (°C).
4. Dissolved Oxygen (DO) reported to 0.1 milligrams per liter (mg/L).
5. ORP = oxidation-reduction potential.
6. mV = millivolts.
7. '-- = not measured or not applicable. Dissolved oxygen meter was malfunctioning on 03/15/2017 and 03/16/2017.
8. Dissolved oxygen measured on 3/10/2017 for DC-11, MW-11, MW-16, and DC-18 as part of routine O&M monitoring of the air sparging and soil vapor extraction system.

Table 8

Tetrachloroethene Concentrations in Groundwater - December 2016
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Sceened Interval Depth (feet TOC)	Depth to Water (feet TOC)	Pump Intake Depth (feet TOC)	PCE (µg/l)	
MTCA Method A Ground Water Cleanup Level					**5**	
Shallow Monitoring Wells						
MW-3	12/14/2016	35.67-45.67	38.41	41	1.00	U
MW-4	12/14/2016	33.45-43.45	38.41	41	1.00	U
MW-10	12/14/2016	31.52-41.52	37.65	38	**1.13**	
MW-11	12/14/2016	31.56-41.56	34.40	38	**7.99**	
MW-12	12/15/2016	35.7-45.7	35.27	42	1.00	U
MW-13	12/14/2016	34.58-44.58	39.63	40	1.00	U
MW-16	12/13/2016	29.45-44.65	36.13	41	**1.63**	
DC-3	12/13/2016	42.32-47.32	38.12	45	1.00	U
DC-4	12/14/2016	43.36-48.36	40.55	44.5	1.00	U
DC-10A	12/16/2016	32.01-37.01	35.36	37	**10.8**	
KMW-2	12/15/2016	29.91-39.91	34.50	37	**1.18**	

NOTES:

1. Tetrachloroethene (PCE) concentrations in migrograms per liter (µg/l).
2. Groundwater samples analyzed using USEPA Method 8260C.
3. U = concentration not detected at or above the laboratory practical quantitation limit (PQL).
4. Detected concentrations are shown in **bold.**
5. Concentrations exceeding the cleanup level are **bold and shaded**.
6. Screened interval depth is estimated using from surveyed elevations (top of casing elevations, ground surface, and monument rim) and field measurements at the time of drilling.
7. Pump intake depth and depth to water is measured in feet below the top of casing (TOC).
8. Screened intervals completely submerged are shaded.

Table 9

Tetrachloroethene Concentrations in Groundwater - March 2017
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	Sceened Interval Depth (feet TOC)	Depth to Water (feet TOC)	Pump Intake Depth (feet TOC)	PCE (µg/l)	
MTCA Method A Ground Water Cleanup Level					**5**	
Shallow Monitoring Wells						
MW-2	3/13/2017	32.22-42.22	34.93	37	**6.02**	
MW-3	3/13/2017	35.67-45.67	37.09	40	1.00	U
MW-4	3/14/2017	33.45-43.45	36.42	39	1.00	U
MW-7	3/17/2017	34.47-44.47	36.79	38.5	**8.08**	
MW-9	3/13/2017	31.6-41.6	30.20	33	1.00	U
MW-10	3/14/2017	31.52-41.52	33.15	36	**1.09**	
MW-11	3/16/2017	31.56-41.56	34.11	36.5	**4.66**	
MW-12	3/13/2017	35.7-45.7	38.39	40	1.00	U
MW-13	3/14/2017	34.58-44.58	34.78	38	1.00	U
MW-14	3/14/2017	27.6-37.6	30.73	33	1.00	U
MW-15	3/14/2017	37.14-47.14	38.72	42	1.00	U
MW-16	3/16/2017	29.45-44.65	36.92	39	**1.13**	
DC-3	3/14/2017	42.32-47.32	39.39	43.5	**2.11**	
DC-4	3/14/2017	43.36-48.36	38.59	44.5	1.00	U
DC-7	3/17/2017	34.35-39.35	30.03	35.5	**10.4**	
DC-8	3/16/2017	36.64-41.64	33.65	37.6	**9.69**	
DC-10A	3/17/2017	32.01-37.01	34.09	36	**8.62**	
DC-11	3/15/2017	31.6-41.6	37.49	40	**1.97**	
DC-12	3/15/2017	31.7-41.7	37.72	40.5	**2.02**	
DC-13	3/15/2017	31.7-41.7	36.82	39	**4.32**	
DC-14	3/16/2017	34.4-44.4	36.38	39	**6.20**	
DC-15	3/16/2017	30.7-40.7	34.82	37	**8.96**	
DC-17	3/17/2017	29.81-39.81	31.80	34	**13.9**	
DC-18	3/16/2017	31.58-41.58	36.26	38.5	**3.24**	
DC-20	3/15/2017	33.8-43.8	37.65	39.5	**2.00**	
KMW-2	3/14/2017	29.91-39.91	33.42	35	1.00	U
KMW-3	3/14/2017	24.6-34.6	24.33	26.5	**3.23**	
KMW-7	3/16/2017	28.78-43.78	28.98	31.5	**1.17**	
KMW-8	3/16/2017	28.69-43.69	35.94	40	**6.71**	
KMW-9	3/15/2017	33.5-43.5	36.65	38.5	**2.07**	

Table 9

Tetrachloroethene Concentrations in Groundwater - March 2017
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

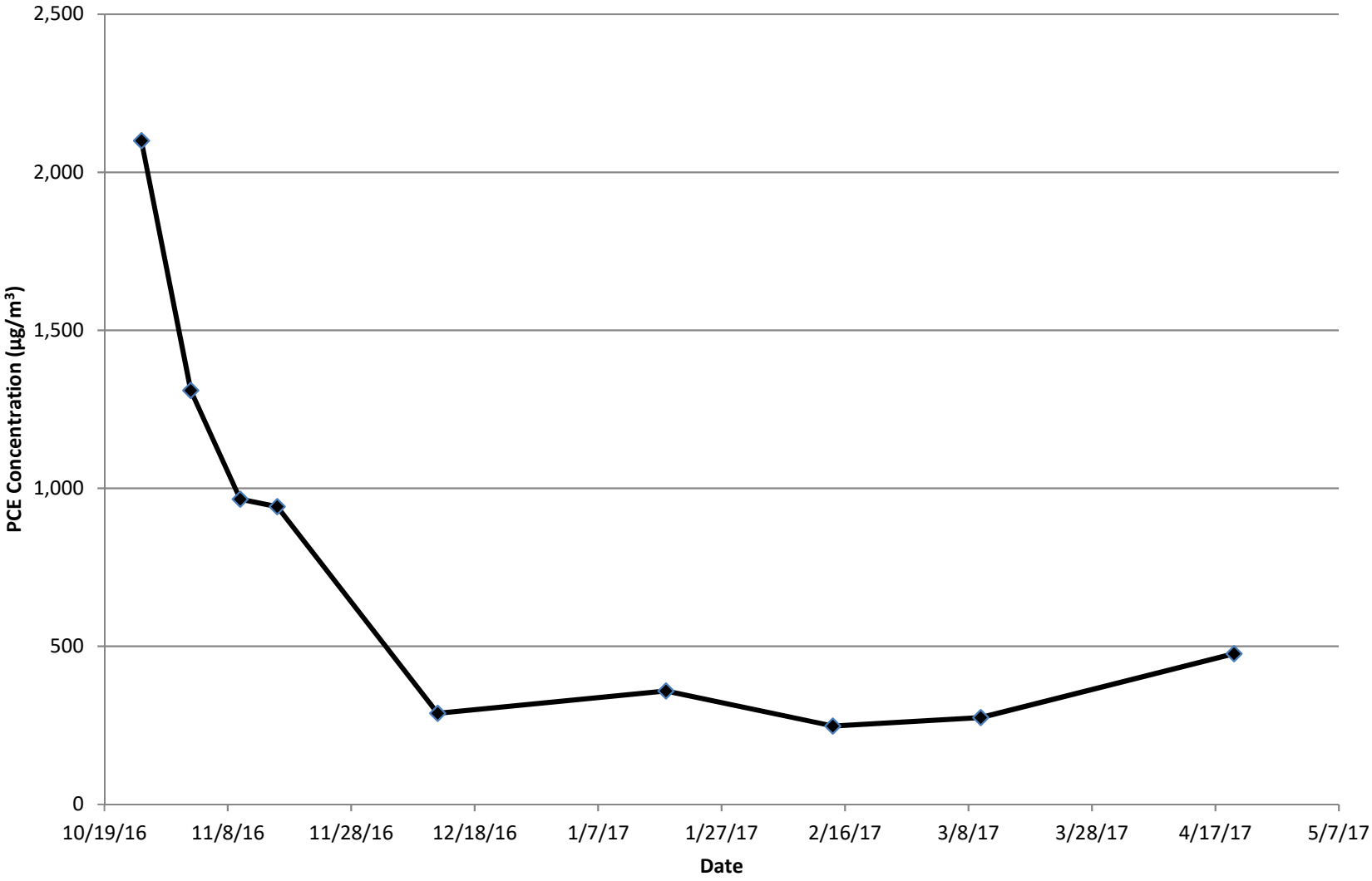
Monitoring Well	Date	Sceened Interval Depth (feet TOC)	Depth to Water (feet TOC)	Pump Intake Depth (feet TOC)	PCE (µg/l)

NOTES:

1. Tetrachloroethene (PCE) concentrations in migrograms per liter (µg/l).
2. Groundwater samples analyzed using USEPA Method 8260C.
3. U = concentration not detected at or above the laboratory practical quantitation limit (PQL).
4. Detected concentrations are shown in **bold.**
5. Concentrations exceeding the cleanup level are **bold and shaded**.
6. Screened interval depth is estimated using from surveyed elevations (top of casing elevations, ground surface, and monument rim) and field measurements at the time of drilling.
7. Pump intake depth and depth to water is measured in feet below the top of casing (TOC).
8. Screened intervals completely submerged are shaded.

ATTACHMENT A
O&M CHARTS AND SUMMARY TABLES

Attachment A-1
SVE Discharge PCE Concentrations
Manhattan Village/Harris Properties



Attachment A-2
Cumulative PCE Removed
Manhattan Village/Harris Properties

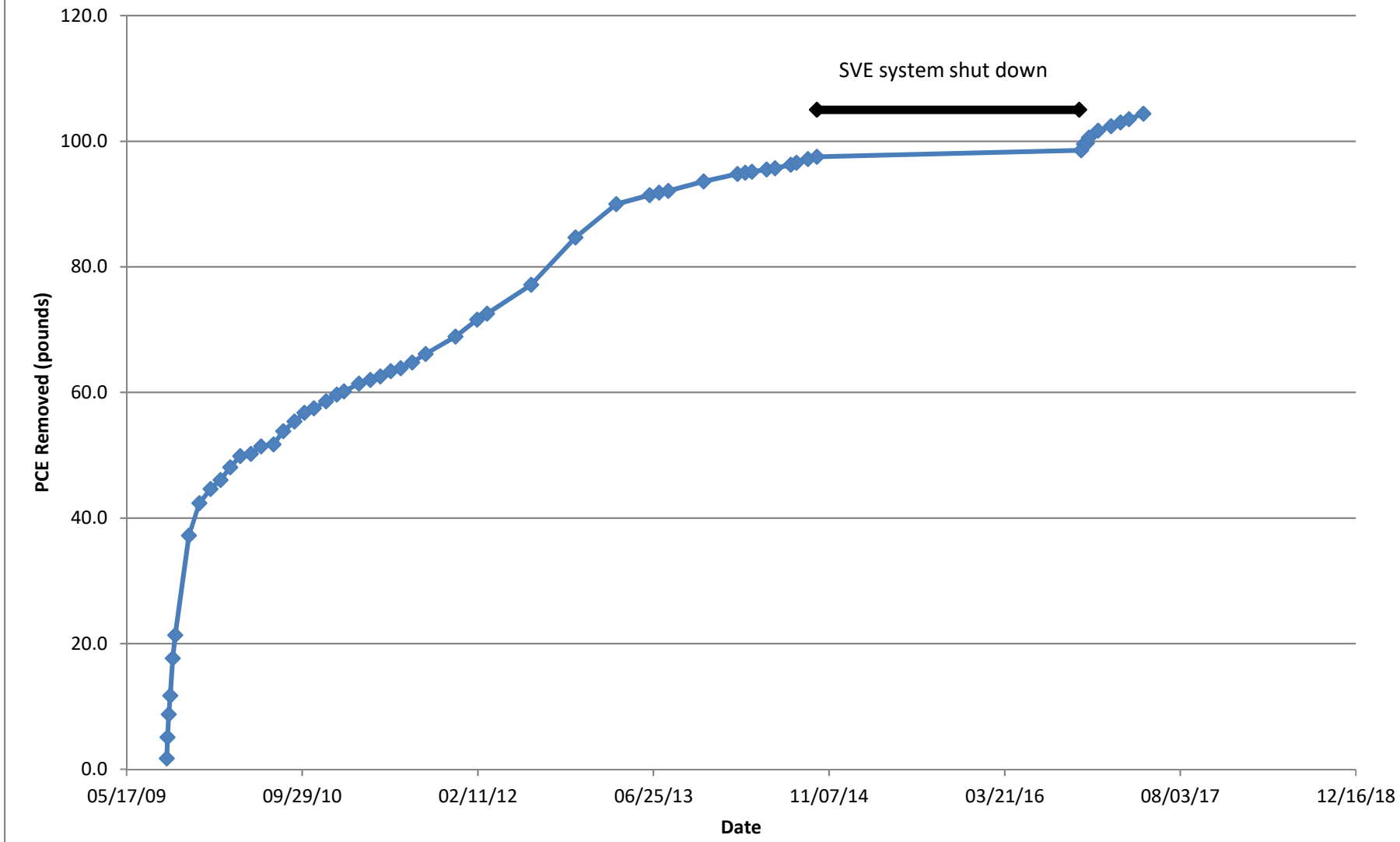


Table A-3
Historical SVE Leg Analytical Results
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

SVE Well	PCE Concentration				
	06/04/10	01/26/11	12/09/11	11/05/13	12/12/16
SVE-1	3,900	1,300	1,600	1,010	499
SVE-2	740	1,600	1,300	977	374
SVE-3	7,100	2,900	2,500	1,920	338
SVE-4	330	870	910	412	332
SVE-5	5,100	2,500	1,200	499	716
SVE-6	17,000	4,400	2,900	827	1,490
SVE-7	3,300	1,700	1,400	723	1,130
SVE-8	590	800	6	448	703
SVE-9	880	740	750	325	379
SVE-10	1,300	1,100	1,300	709	398
SVE-11A	--	--	--	--	136
SVE-11B	--	--	--	--	149
SVE-12A	--	--	--	--	217
SVE-12B	--	--	--	--	295
SVE-13A	--	--	--	--	145
SVE-13B	--	--	--	--	241
SVE-14	--	--	--	--	144
SVE-15	--	--	--	--	373
SVE-16	--	--	--	--	587
SVE-17	--	--	--	--	65.1
SVE-18	--	--	--	--	380
SVE-19	--	--	--	--	147

Notes:

1. Concentrations in micrograms per cubic meter ($\mu g/m^3$)

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
MW-2	10/22/16	308.34	35.95	272.39	9.0
	10/25/16	308.34	35.91	272.43	7.0
	11/02/16	308.34	36.00	272.34	8.6
	11/10/16	308.34	35.99	272.35	7.9
	11/16/16	308.34	36.07	272.27	8.0
	12/12/16	308.34	36.02	272.32	8.1
	02/14/17	308.34	37.01	271.33	7.2
	03/10/17	308.34	35.00	273.34	8.7
	04/20/17	308.34	33.90	274.44	--
MW-3	09/21/16	311.41	37.91	273.50	--
	10/22/16	311.41	38.22	273.19	9.6
	10/25/16	311.41	38.21	273.20	11.0
	11/02/16	311.41	38.29	273.12	11.2
	11/10/16	311.41	38.25	273.16	10.9
	11/16/16	311.41	38.35	273.06	11.0
	12/12/16	311.41	38.32	273.09	10.8
	02/14/17	311.41	37.91	273.50	8.7
	03/10/17	311.41	37.15	274.26	10.9
	04/20/17	311.41	36.00	275.41	10.9
MW-4	09/21/16	310.47	37.26	273.21	--
	10/22/16	310.47	37.55	272.92	9.9
	10/25/16	310.47	37.40	273.07	11.5
	11/02/16	310.47	37.52	272.95	11.1
	11/10/16	310.47	37.45	273.02	11.1
	11/16/16	310.47	37.59	272.88	10.7
	12/12/16	310.47	37.48	272.99	10.7
	01/18/17	310.47	37.42	273.05	11.4
	02/14/17	310.47	36.90	273.57	9.2
	03/10/17	310.47	35.91	274.56	11.3
	04/20/17	310.47	34.11	276.36	--
MW-10	09/21/16	306.71	33.89	272.82	--
	10/22/16	306.71	34.25	272.46	11.0
	10/25/16	306.71	34.25	272.46	10.0
	11/02/16	306.71	34.33	272.38	11.7
	11/10/16	306.71	34.31	272.40	11.3
	11/16/16	306.71	34.41	272.30	11.9
	12/12/16	306.71	34.31	272.40	11.8
	01/18/17	306.71	34.25	272.46	8.2
	02/14/17	306.71	33.98	272.73	10.1
	03/10/17	306.71	33.21	273.50	11.4
	04/20/17	306.71	32.11	274.60	--

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
MW-11	09/21/16	307.62	34.82	272.80	--
	10/22/16	307.62	35.31	272.31	9.7
	10/25/16	307.62	35.21	272.41	9.3
	11/02/16	307.62	35.24	272.38	10.5
	11/10/16	307.62	35.19	272.43	10.4
	11/16/16	307.62	35.32	272.30	9.7
	12/12/16	307.62	35.28	272.34	9.6
	01/18/17	307.62	35.30	272.32	10.1
	02/14/17	307.62	34.96	272.66	9.2
	03/10/17	307.62	34.20	273.42	9.8
	04/20/17	307.62	33.10	274.52	--
MW-12	09/21/16	312.80	39.19	273.61	--
	10/22/16	312.80	39.55	273.25	9.3
	10/25/16	312.80	--	--	--
	11/02/16	312.80	39.58	273.22	11.1
	11/10/16	312.80	39.52	273.28	11.3
	11/16/16	312.80	39.65	273.15	11.2
	12/12/16	312.80	39.80	273.00	11.1
	01/18/17	312.80	39.21	273.59	12.6
	02/14/17	312.80	39.21	273.59	8.8
	03/10/17	312.80	38.47	274.33	11.2
	04/20/17	312.80	37.20	275.60	--
MW-13	09/21/16	308.75	35.66	273.09	--
	10/22/16	308.75	36.00	272.75	10.6
	10/25/16	308.75	35.95	272.80	10.4
	11/02/16	308.75	36.03	272.72	10.1
	11/10/16	308.75	36.00	272.75	9.6
	11/16/16	308.75	36.06	272.69	9.7
	12/12/16	308.75	36.00	272.75	9.6
	01/18/17	308.75	36.15	272.60	10.3
	02/14/17	308.75	35.60	273.15	7.0
	03/10/17	308.75	34.85	273.90	9.8
	04/20/17	308.75	33.80	274.95	--

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
MW-15	09/21/16	312.44	39.38	273.06	--
	10/22/16	312.44	39.75	272.69	9.2
	10/25/16	312.44	39.72	272.72	8.0
	11/02/16	312.44	39.81	272.63	8.9
	11/10/16	312.44	39.77	272.67	8.8
	11/16/16	312.44	39.90	272.54	9.0
	12/12/16	312.44	39.85	272.59	8.9
	01/18/17	312.44	39.85	272.59	9.5
	02/14/17	312.44	40.55	271.89	7.0
	03/10/17	312.44	38.79	273.65	9.0
	04/20/17	312.44	37.71	274.73	--
MW-16	09/21/16	310.37	37.50	272.87	--
	10/22/16	310.37	38.00	272.37	9.2
	10/25/16	310.37	37.95	272.42	7.7
	11/02/16	310.37	38.03	272.34	8.6
	11/10/16	310.37	38.01	272.36	8.3
	11/16/16	310.37	38.10	272.27	8.8
	12/12/16	310.37	38.19	272.18	8.8
	01/18/17	310.37	37.91	272.46	12.0
	02/14/17	310.37	37.72	272.65	8.0
	03/10/17	310.37	37.01	273.36	9.0
	04/20/17	310.37	35.90	274.47	--
DC-1	09/21/16	312.82	39.10	273.72	--
	10/22/16	312.82	39.45	273.37	9.5
	10/25/16	312.82	39.49	273.33	6.5
	11/02/16	312.82	39.49	273.33	9.4
	11/10/16	312.82	39.49	273.33	9.0
	11/16/16	312.82	39.60	273.22	9.0
	12/12/16	312.82	39.59	273.23	9.0
	01/18/17	312.82	39.59	273.23	6.0
	02/14/17	312.82	39.30	273.52	8.0
	03/10/17	312.82	38.59	274.23	7.0
	04/20/17	312.82	37.41	275.41	--

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
DC-2	09/21/16	312.92	39.82	273.10	--
	10/22/16	312.92	40.20	272.72	9.0
	10/25/16	312.92	40.19	272.73	7.7
	11/02/16	312.92	40.24	272.68	8.4
	11/10/16	312.92	40.21	272.71	8.2
	11/16/16	312.92	40.32	272.60	8.3
	12/12/16	312.92	40.31	272.61	8.4
	01/18/17	312.92	40.35	272.57	9.1
	02/14/17	312.92	40.00	272.92	7.1
	03/10/17	312.92	39.30	273.62	8.5
	04/20/17	312.92	38.22	274.70	--
DC-3	09/21/16	313.11	40.11	273.00	--
	10/22/16	313.11	40.48	272.63	10.1
	10/25/16	313.11	40.50	272.61	9.4
	11/02/16	313.11	--	--	--
	11/10/16	313.11	40.48	272.63	11.4
	11/16/16	313.11	40.60	272.51	11.3
	12/12/16	313.11	40.79	272.32	11.4
	01/18/17	313.11	40.55	272.56	11.9
	02/14/17	313.11	40.22	272.89	7.8
	03/10/17	313.11	39.44	273.67	11.5
	04/20/17	313.11	38.34	274.77	--
DC-4	09/21/16	312.35	39.31	273.04	--
	10/22/16	312.35	42.03	270.32	10.5
	10/25/16	312.35	39.65	272.70	10.8
	11/02/16	312.35	39.69	272.66	11.2
	11/10/16	312.35	39.61	272.74	11.3
	11/16/16	312.35	39.79	272.56	11.1
	12/12/16	312.35	39.71	272.64	11.0
	01/18/17	312.35	39.79	272.56	12.1
	02/14/17	312.35	39.41	272.94	8.7
	03/10/17	312.35	38.61	273.74	11.1
	04/20/17	312.35	37.51	274.84	--
DC-5	09/21/16	306.25	33.40	272.85	--
	10/22/16	306.25	33.77	272.48	12.3

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
DC-10A	09/21/16	307.73	34.88	272.85	--
	10/22/16	307.73	35.17	272.56	10.0
	10/25/16	307.73	35.15	272.58	7.5
	11/02/16	307.73	35.24	272.49	9.8
	11/10/16	307.73	35.22	272.51	10.0
	11/16/16	307.73	35.31	272.42	10.3
	12/12/16	307.73	35.21	272.52	10.2
	01/18/17	307.73	35.15	272.58	9.7
	02/14/17	307.73	34.84	272.89	10.2
	03/10/17	307.73	34.12	273.61	10.3
	04/20/17	307.73	33.00	274.73	--
DC-10B	09/21/16	307.89	34.90	272.99	--
	10/22/16	307.89	35.25	272.64	9.8
DC-11	09/21/16	311.25	38.01	273.24	--
	10/22/16	311.25	38.41	272.84	9.8
	10/25/16	311.25	38.40	272.85	9.9
	11/02/16	311.25	38.48	272.77	8.6
	11/10/16	311.25	38.45	272.80	7.3
	11/16/16	311.25	38.55	272.70	8.6
	12/12/16	311.25	38.53	272.72	8.9
	01/18/17	311.25	38.51	272.74	9.0
	02/14/17	311.25	38.24	273.01	6.7
	03/10/17	311.25	37.53	273.72	8.9
	04/20/17	311.25	36.40	274.85	--
DC-16	09/21/16	307.12	34.67	272.45	--
	10/22/16	307.12	35.05	272.07	9.5
DC-18	09/21/16	309.51	36.85	272.66	--
	10/22/16	309.51	37.25	272.26	9.3
	10/25/16	309.51	37.23	272.28	8.9
	11/02/16	309.51	37.29	272.22	9.3
	11/10/16	309.51	37.25	272.26	8.3
	11/16/16	309.51	37.37	272.14	9.4
	12/12/16	309.51	37.33	272.18	10.0
	01/18/17	309.51	37.35	272.16	7.7
	02/14/17	309.51	37.05	272.46	7.1
	03/10/17	309.51	36.34	273.17	10.3
	04/20/17	309.51	35.25	274.26	--

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
DC-19	09/21/16	313.62	40.19	273.43	--
	10/22/16	313.62	40.49	273.13	5.3
	10/25/16	313.62	39.70	273.92	6.0
	11/02/16	313.62	40.63	272.99	5.2
	11/10/16	313.62	40.62	273.00	4.9
	11/16/16	313.62	40.70	272.92	5.2
	12/12/16	313.62	40.68	272.94	6.0
	01/18/17	313.62	40.70	272.92	5.0
	02/14/17	313.62	40.42	273.20	7.2
	03/10/17	313.62	39.70	273.92	5.8
	04/20/17	313.62	38.85	274.77	--
KMW-2	09/21/16	307.04	34.19	272.85	--
	10/22/16	307.04	34.50	272.54	10.7
	10/25/16	307.04	34.54	272.50	9.8
	11/02/16	307.04	34.60	272.44	8.3
	11/10/16	307.04	34.57	272.47	10.8
	11/16/16	307.04	34.68	272.36	10.4
	12/12/16	307.04	34.59	272.45	10.3
	01/18/17	307.04	34.79	272.25	9.9
	02/14/17	307.04	34.24	272.80	11.1
	03/10/17	307.04	33.49	273.55	10.0
	04/20/17	307.04	32.41	274.63	--
KMW-3	09/21/16	296.92	25.34	271.58	--
	10/22/16	296.92	25.71	271.21	10.3

Table A-4
Air Sparging Groundwater Monitoring Parameters
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)	Dissolved Oxygen (mg/L)
KMW-9	09/21/16	310.33	37.28	273.05	--
	10/22/16	310.33	37.65	272.68	8.6
	10/25/16	310.33	37.60	272.73	8.6
	11/02/16	310.33	37.70	272.63	8.6
	11/10/16	310.33	37.67	272.66	8.4
	11/16/16	310.33	37.77	272.56	8.5
	12/12/16	310.33	37.72	272.61	8.7
	01/18/17	310.33	37.75	272.58	10.8
	02/14/17	310.33	37.45	272.88	6.0
	03/10/17	310.33	36.70	273.63	10.6
	04/20/17	310.33	35.52	274.81	--

Notes:

1. -- = not measured or not applicable.
2. Well monument types: flush grade monuments and above ground (AG) monuments.
3. Depth to water is measured from top of well casing.
4. Elevations are reported relative to North American Vertical Datum of 1988 (NAVD 88).
5. Top of casing (TOC) elevations were surveyed by D.R. Strong Consulting Engineers, Inc. in February and May 2013 and by Lanktree Land Surveying, Inc. in July 2015.
6. Dissolved Oxygen (DO) reported to 0.1 milligrams per liter (mg/L).

ATTACHMENT B
LABORATORY REPORTS AND DATA VALIDATION MEMORANDA

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Lab ID: 1410026

October 13, 2014

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 10/3/2014 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *10/13/2014*

CLIENT: PES Environmental, Inc.
Project: MVSC
Lab Order: 1410026

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1410026-001	SYS-1014	10/03/2014 9:15 AM	10/03/2014 11:00 AM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1410026**
Date: **10/13/2014**

CLIENT: PES Environmental, Inc.
Project: MVSC

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

N = Tentatively Identified Compounds (TIC).

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Client: **PES Environmental, Inc.**
WorkOrder: 1410026
Project: MVSC

Client Sample ID: SYS-1014
Lab ID: 1410026-001A
Sample Type: Summa Canister

Date Sampled: 10/3/2014
Date Received: 10/3/2014

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Tetrachloroethene (PCE)	80.0	543	4.80	32.6		TO-15	10/07/2014	JY
Surr: 4-Bromofluorobenzene	112 %Rec	--	70-130	--		TO-15	10/07/2014	JY

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit

Fremont Analytical

Date: *10/13/2014*

Work Order: 1410026
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID: **1410026-001AREP**	SampType: **REP**			Units: **ppbv**		Prep Date: **10/7/2014**		RunNo: **17297**			
Client ID: **SYS-1014**	Batch ID: **R17297**					Analysis Date: **10/7/2014**		SeqNo: **345999**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	84.6	4.80						80.04	5.53	30	
Surr: 4-Bromofluorobenzene	182		160.0		114	70	130		0		

Sample ID: **LCS-R17297**	SampType: **LCS**			Units: **ppbv**		Prep Date: **10/7/2014**		RunNo: **17297**			
Client ID: **LCSW**	Batch ID: **R17297**					Analysis Date: **10/7/2014**		SeqNo: **346001**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	9.77	0.300	10.00	0	97.7	70	130				
Surr: 4-Bromofluorobenzene	23.5		20.00		118	70	130				

Sample ID: **MB-R17297**	SampType: **MBLK**			Units: **ppbv**		Prep Date: **10/7/2014**		RunNo: **17297**			
Client ID: **MBLKW**	Batch ID: **R17297**					Analysis Date: **10/7/2014**		SeqNo: **346002**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Tetrachloroethene (PCE)	ND	0.300									
Surr: 4-Bromofluorobenzene	10.7		10.00		107	70	130				

Qualifiers:

B	Analyte detected in the associated Method Blank	D	Dilution was required	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected below quantitation limits	ND	Not detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Limit	S	Spike recovery outside accepted recovery limits

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1410026**
Logged by:	**Clare Griggs**	Date Received:	**10/3/2014 11:00:00 AM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes	☑	No ☐	Not Present	☐
2.	How was the sample delivered?	Client				

Log In

3.	Coolers are present?	Yes	☐	No ☑	NA	☐
		Air Sample				
4.	Shipping container/cooler in good condition?	Yes	☑	No ☐		
5.	Custody seals intact on shipping container/cooler?	Yes	☐	No ☐	Not Required	☑
6.	Was an attempt made to cool the samples?	Yes	☐	No ☐	NA	☑
7.	Were all coolers received at a temperature of >0°C to 10.0°C	Yes	☐	No ☐	NA	☑
8.	Sample(s) in proper container(s)?	Yes	☑	No ☐		
9.	Sufficient sample volume for indicated test(s)?	Yes	☑	No ☐		
10.	Are samples properly preserved?	Yes	☑	No ☐		
11.	Was preservative added to bottles?	Yes	☐	No ☑	NA	☐
12.	Is the headspace in the VOA vials?	Yes	☐	No ☐	NA	☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes	☑	No ☐		
14.	Does paperwork match bottle labels?	Yes	☑	No ☐		
15.	Are matrices correctly identified on Chain of Custody?	Yes	☑	No ☐		
16.	Is it clear what analyses were requested?	Yes	☑	No ☐		
17.	Were all holding times able to be met?	Yes	☑	No ☐		

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes	☐	No ☐	NA	☑

Person Notified:		Date:	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

Air Chain of Custody Record

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1410026

Date: 10-3-14

Page: 1 of 1

Client: PES Environmental Inc.
Address: 1215 4th Avenue Ste. 1350
City, State, Zip: Seattle, WA 98161
Tel: 206-521-3480
Reports To (PM): Matt Dahl
Email: MDahl@pesenv.com

Project Name: MVSC
Location: Normandy Park, WA
Collected by: Karsten Springstead
Project No: 1358.001.01.007

	Sample Name	Canister Serial #	Sample Date	Sample Time	Indoor/ Outdoor	Sample Volume	Container Type	Lab Cert. Vacuum Pressure	Field Initial Sample Pressure	Field Final Sample Pressure	Barometric Pressure	Analysis Requested	Internal: Receipt Date	Internal: Final (psi)
1	SVS-1014	13968	10-3-14	915	OUTDOOR	6L	SUMMA		-30Hg	-2Hg		TO-15 PCE ONLY	10/3	-2
2														
3														
4														
5														
6														
7														
8														
9														
10														

Condition:
Seals Intact: Y N N/A

Relinquished x — Date/Time 10-3-14/1100 — Received x — Date/Time 10-3-14 10:57
Relinquished x — Date/Time — Received x — Date/Time

Special Remarks:
PCE ONLY
Report to MRLS
EDD in EIM FORMAT

TAT --> (STD) Rush (specify)

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1610369

October 26, 2016

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 10/25/2016 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *10/26/2016*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1610369

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1610369-001	SYS-1016	10/25/2016 1:30 PM	10/25/2016 3:04 PM

Case Narrative

WO#: **1610369**
Date: **10/26/2016**

CLIENT: PES Environmental, Inc.
Project: MVSC

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: **PES Environmental, Inc.**
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	10/26/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	10/26/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	10/26/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	10/26/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	10/26/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	10/26/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	10/26/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	10/26/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	10/26/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	10/26/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	10/26/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	10/26/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	10/26/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	10/26/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	10/26/2016	BC
(MEK) 2-Butanone	2.86	8.43	0.500	1.47		EPA-TO-15	10/26/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	10/26/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	10/26/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	10/26/2016	BC
Acetone	5.61	13.3	1.00	2.38	B	EPA-TO-15	10/26/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	10/26/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	10/26/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	10/26/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	10/26/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	10/26/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	10/26/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	10/26/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	10/26/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	10/26/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	10/26/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	10/26/2016	BC
Chloroform	1.68	8.20	0.200	0.977		EPA-TO-15	10/26/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	10/26/2016	BC
cis-1,2-Dichloroethene	2.51	9.95	0.200	0.793		EPA-TO-15	10/26/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	10/26/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	10/26/2016	BC
Dichlorodifluoromethane (CFC-12)	0.460	2.27	0.300	1.48		EPA-TO-15	10/26/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	10/26/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	10/26/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	10/26/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	10/26/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	10/26/2016	BC
m,p-Xylene	0.200	0.868	0.200	0.868		EPA-TO-15	10/26/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	10/26/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	10/26/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	10/26/2016	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	10/26/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	10/26/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	10/26/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	10/26/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	10/26/2016	BC
Tetrachloroethene (PCE)	310	2,100	4.80	32.6		EPA-TO-15	10/26/2016	BC
Tetrahydrofuran	7.68	22.6	0.500	1.47		EPA-TO-15	10/26/2016	BC
Toluene	0.310	1.17	0.200	0.754		EPA-TO-15	10/26/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	10/26/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	10/26/2016	BC
Trichloroethene (TCE)	2.67	14.3	0.200	1.07		EPA-TO-15	10/26/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	0.550	3.09	0.300	1.69		EPA-TO-15	10/26/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	10/26/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	10/26/2016	BC
Surr: 4-Bromofluorobenzene	102 %Rec	--	70-130	--		EPA-TO-15	10/26/2016	BC

NOTES:
Acetone is a common laboratory solvent (See Method Blank)

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32531** SampType: **LCS** Units: **ppbv** Prep Date: **10/25/2016** RunNo: **32531**
Client ID: **LCSW** Batch ID: **R32531** Analysis Date: **10/25/2016** SeqNo: **615944**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	5.98	0.500	5.000	0	120	70	130				
Dichlorodifluoromethane (CFC-12)	3.67	0.300	5.000	0	73.4	70	130				
Chloromethane	5.04	0.500	5.000	0	101	70	130				
Dichlorotetrafluoroethane (CFC-114)	3.99	0.500	5.000	0	79.8	70	130				
Vinyl chloride	4.12	0.200	5.000	0	82.4	70	130				
1,3-Butadiene	4.68	0.500	5.000	0	93.6	70	130				
Bromomethane	3.95	0.500	5.000	0	79.0	70	130				
Trichlorofluoromethane (CFC-11)	4.67	0.300	5.000	0	93.4	70	130				
Chloroethane	3.98	0.500	5.000	0	79.6	70	130				
Acrolein	4.66	0.500	5.000	0	93.2	70	130				
1,1-Dichloroethene (DCE)	3.68	0.200	5.000	0	73.6	70	130				
Acetone	5.63	1.00	5.000	0	113	70	130				
Isopropyl Alcohol	5.47	1.00	5.000	0	109	70	130				
Methylene chloride	3.76	1.50	5.000	0	75.2	70	130				
Carbon disulfide	3.69	1.50	5.000	0	73.8	70	130				
trans-1,2-Dichloroethene	3.89	0.200	5.000	0	77.8	70	130				
Methyl tert-butyl ether (MTBE)	4.05	0.200	5.000	0	81.0	70	130				
Hexane	4.68	0.200	5.000	0	93.6	70	130				
1,1-Dichloroethane	4.29	0.200	5.000	0	85.8	70	130				
Vinyl acetate	3.50	1.00	5.000	0	70.0	70	130				
cis-1,2-Dichloroethene	3.79	0.200	5.000	0	75.8	70	130				
(MEK) 2-Butanone	4.32	0.500	5.000	0	86.4	70	130				
Ethyl acetate	4.54	1.00	5.000	0	90.8	70	130				
Chloroform	4.21	0.200	5.000	0	84.2	70	130				
Tetrahydrofuran	4.05	0.500	5.000	0	81.0	70	130				
1,1,1-Trichloroethane	4.50	0.200	5.000	0	90.0	70	130				
Carbon tetrachloride	4.86	0.200	5.000	0	97.2	70	130				
1,2-Dichloroethane	4.52	0.200	5.000	0	90.4	70	130				
Benzene	4.35	0.200	5.000	0	87.0	70	130				
Cyclohexane	4.87	0.200	5.000	0	97.4	70	130				
Trichloroethene (TCE)	4.27	0.200	5.000	0	85.4	70	130				

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32531** SampType: **LCS** Units: **ppbv** Prep Date: **10/25/2016** RunNo: **32531**
Client ID: **LCSW** Batch ID: **R32531** Analysis Date: **10/25/2016** SeqNo: **615944**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	4.24	0.500	5.000	0	84.8	70	130				
Methyl methacrylate	4.34	0.300	5.000	0	86.8	70	130				
Dichlorobromomethane	4.27	0.300	5.000	0	85.4	70	130				
1,4-Dioxane	4.44	1.00	5.000	0	88.8	70	130				
cis-1,3-dichloropropene	4.22	0.500	5.000	0	84.4	70	130				
Toluene	4.20	0.200	5.000	0	84.0	70	130				
trans-1,3-dichloropropene	4.17	0.500	5.000	0	83.4	70	130				
1,1,2-Trichloroethane (TCA)	4.27	0.500	5.000	0	85.4	70	130				
Tetrachloroethene (PCE)	4.54	0.300	5.000	0	90.8	70	130				
Dibromochloromethane	4.57	0.500	5.000	0	91.4	70	130				
1,2-Dibromoethane (EDB)	4.25	0.200	5.000	0	85.0	70	130				
Chlorobenzene	4.14	0.200	5.000	0	82.8	70	130				
Ethylbenzene	4.14	0.300	5.000	0	82.8	70	130				
m,p-Xylene	8.58	0.200	10.00	0	85.8	70	130				
o-Xylene	4.08	0.200	5.000	0	81.6	70	130				
Styrene	4.00	0.300	5.000	0	80.0	70	130				
Bromoform	5.17	0.200	5.000	0	103	70	130				
1,1,2,2-Tetrachloroethane	3.93	0.300	5.000	0	78.6	70	130				
1,3,5-Trimethylbenzene	4.31	0.300	5.000	0	86.2	70	130				
1,2,4-Trimethylbenzene	4.08	0.300	5.000	0	81.6	70	130				
Benzyl chloride	3.98	0.500	5.000	0	79.6	70	130				
4-Ethyltoluene	4.25	0.300	5.000	0	85.0	70	130				
1,3-Dichlorobenzene	4.86	0.300	5.000	0	97.2	70	130				
1,4-Dichlorobenzene	5.02	0.300	5.000	0	100	70	130				
1,2-Dichlorobenzene	4.95	0.500	5.000	0	99.0	70	130				
1,2,4-Trichlorobenzene	6.53	0.300	5.000	0	131	70	130				S
Hexachlorobutadiene	8.53	1.00	5.000	0	171	70	130				S
Naphthalene	6.08	0.300	5.000	0	122	70	130				
2-Hexanone	4.57	1.00	5.000	0	91.4	70	130				
4-Methyl-2-pentanone (MIBK)	4.24	1.00	5.000	0	84.8	70	130				
CFC-113	3.85	0.500	5.000	0	77.0	70	130				

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32531** SampType: **LCS** Units: **ppbv** Prep Date: **10/25/2016** RunNo: **32531**
Client ID: **LCSW** Batch ID: **R32531** Analysis Date: **10/25/2016** SeqNo: **615944**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.15	0.500	5.000	0	83.0	70	130				
Surr: 4-Bromofluorobenzene	10.6		10.00		106	70	130				

NOTES:
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-R32531** SampType: **MBLK** Units: **ppbv** Prep Date: **10/25/2016** RunNo: **32531**
Client ID: **MBLKW** Batch ID: **R32531** Analysis Date: **10/25/2016** SeqNo: **615952**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	1.11	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R32531**	SampType: **MBLK**		Units: **ppbv**	Prep Date: **10/25/2016**		RunNo: **32531**	
Client ID: **MBLKW**	Batch ID: **R32531**			Analysis Date: **10/25/2016**		SeqNo: **615952**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R32531** SampType: **MBLK** Units: **ppbv** Prep Date: **10/25/2016** RunNo: **32531**
Client ID: **MBLKW** Batch ID: **R32531** Analysis Date: **10/25/2016** SeqNo: **615952**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	10.4		10.00		104	70	130				

NOTES:
Acetone is a common laboratory solvent.

Sample ID **1610369-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **10/26/2016** RunNo: **32531**
Client ID: **SYS-1016** Batch ID: **R32531** Analysis Date: **10/26/2016** SeqNo: **615943**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500						0		30	
Dichlorodifluoromethane (CFC-12)	0.430	0.300						0.4600	6.74	30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	0.550	0.300						0.5500	0	30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	5.25	1.00						5.610	6.63	30	B
Isopropyl Alcohol	ND	1.00						0		30	

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1610369-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **10/26/2016** RunNo: **32531**
Client ID: **SYS-1016** Batch ID: **R32531** Analysis Date: **10/26/2016** SeqNo: **615943**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methylene chloride	ND	1.50						0		30	
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
Hexane	ND	0.200						0		30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	2.46	0.200						2.510	2.01	30	
(MEK) 2-Butanone	2.60	0.500						2.860	9.52	30	
Ethyl acetate	ND	1.00						0		30	
Chloroform	1.66	0.200						1.680	1.20	30	
Tetrahydrofuran	7.77	0.500						7.680	1.17	30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	ND	0.200						0		30	
Cyclohexane	ND	0.200						0		30	
Trichloroethene (TCE)	2.69	0.200						2.670	0.746	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	0.290	0.200						0.3100	6.67	30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	242	0.300						246.7	1.91	30	E
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	ND	0.300						0		30	

Work Order: 1610369
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1610369-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **10/26/2016** RunNo: **32531**
Client ID: **SYS-1016** Batch ID: **R32531** Analysis Date: **10/26/2016** SeqNo: **615943**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
m,p-Xylene	0.210	0.200						0.2000	4.88	30	
o-Xylene	ND	0.200						0		30	
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	0.330	0.300						0.2500	27.6	30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	10.6		10.00		106	70	130		0		

NOTES:
Acetone is a common laboratory solvent.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1610369**
Logged by:	**Clare Griggs**	Date Received:	**10/25/2016 3:04:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1610369

Date: 10-25-16 Page: 1 of: 1

Client: PBS ENVIRONMENTAL INC
Address: 715 4th Ave STE 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax: 206-529-3985

Project Name: MVSC
Project No: 13538.001.01.007 Collected by: K. Springstead
Location: Normandy Park, WA
Reports To (PM): Matt Buhl
Email (PM): MBuhl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-1016	17648 / —	10-25-16 / 1330	SG	1 min	6L	6L	Pressure / Date	Pressure / Date/Time	Container / Regulator	30 / 1300	4 / 1330	TO-15	10/25/16	-4
4		Canister / Flow Reg.	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
4		Canister / Flow Reg.	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
4		Canister / Flow Reg.	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
5		Canister / Flow Reg.	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	10-25-16 / 1504	x	10/25/16 1504
x		x	

TAT --> (STD) Rush (specify)

MEMORANDUM

TO: Project File **DATE:** December 29, 2016

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: October 25, 2016 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1610369

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on October 25, 2016. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1610369.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The samples were hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15was performed within one day of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs with the following exception:

> Acetone, a common laboratory contaminant, was detected slightly above the MRL (1 ppbv) at 1.11 ppbv. Acetone was detected in the associated sample SYS-1016 at 5.61 ppbv. **The acetone result in sample SYS-1016 is estimated (J) due to blank contamination.**

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate Analyses

A laboratory duplicate was performed on client sample SYS-1016. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD). No qualifications were warranted.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blank, duplicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130% with the following exceptions:

> Two LCS compounds (1,2,4-trichlorobenzne and hexachlorobutadiene) were recovered above LCS criteria of 130%. No action was taken since these compounds were not detected in the associated sample.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

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

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	10/26/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	10/26/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	10/26/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	10/26/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	10/26/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	10/26/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	10/26/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	10/26/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	10/26/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	10/26/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	10/26/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	10/26/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	10/26/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	10/26/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	10/26/2016	BC
(MEK) 2-Butanone	2.86	8.43	0.500	1.47		EPA-TO-15	10/26/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	10/26/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	10/26/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	10/26/2016	BC
Acetone	5.61 J	13.3	1.00	2.38	B	EPA-TO-15	10/26/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	10/26/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	10/26/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	10/26/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	10/26/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	10/26/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	10/26/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	10/26/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	10/26/2016	BC

JC 1/3/17

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	10/26/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	10/26/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	10/26/2016	BC
Chloroform	1.68	8.20	0.200	0.977		EPA-TO-15	10/26/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	10/26/2016	BC
cis-1,2-Dichloroethene	2.51	9.95	0.200	0.793		EPA-TO-15	10/26/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	10/26/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	10/26/2016	BC
Dichlorodifluoromethane (CFC-12)	0.460	2.27	0.300	1.48		EPA-TO-15	10/26/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	10/26/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	10/26/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	10/26/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	10/26/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	10/26/2016	BC
m,p-Xylene	0.200	0.868	0.200	0.868		EPA-TO-15	10/26/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	10/26/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	10/26/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	10/26/2016	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	10/26/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	10/26/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	10/26/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	10/26/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	10/26/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	10/26/2016	BC
Tetrachloroethene (PCE)	310	2,100	4.80	32.6		EPA-TO-15	10/26/2016	BC
Tetrahydrofuran	7.68	22.6	0.500	1.47		EPA-TO-15	10/26/2016	BC
Toluene	0.310	1.17	0.200	0.754		EPA-TO-15	10/26/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	10/26/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	10/26/2016	BC
Trichloroethene (TCE)	2.67	14.3	0.200	1.07		EPA-TO-15	10/26/2016	BC

JC 1/3/17

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1610369
Project: MVSC

Client Sample ID: SYS-1016
Lab ID: 1610369-001A
Sample Type: Summa Canister

Date Sampled: 10/25/2016
Date Received: 10/25/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.550	3.09	0.300	1.69		EPA-TO-15	10/26/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	10/26/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	10/26/2016	BC
Surr: 4-Bromofluorobenzene	102 %Rec	--	70-130	--		EPA-TO-15	10/26/2016	BC

NOTES:
Acetone is a common laboratory solvent (See Method Blank)

1/3/17

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1611028

November 04, 2016

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 11/2/2016 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *11/04/2016*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1611028

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611028-001	SYS-110216	11/02/2016 11:30 AM	11/02/2016 1:18 PM

Case Narrative

WO#: **1611028**
Date: **11/4/2016**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: **PES Environmental, Inc.**
WorkOrder: 1611028
Project: MVSC

Client Sample ID: SYS-110216
Lab ID: 1611028-001A
Sample Type: Summa Canister

Date Sampled: 11/2/2016
Date Received: 11/2/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	11/03/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	11/03/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	11/03/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	11/03/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	11/03/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/03/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	11/03/2016	BC
1,2,4-Trimethylbenzene	0.780	3.83	0.300	1.47		EPA-TO-15	11/03/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	11/03/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	11/03/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	11/03/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	11/03/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/03/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	11/03/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/03/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/03/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/03/2016	BC
(MEK) 2-Butanone	2.62	7.73	0.500	1.47		EPA-TO-15	11/03/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/03/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	11/03/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/03/2016	BC
Acetone	5.23	12.4	1.00	2.38		EPA-TO-15	11/03/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	11/03/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	11/03/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	11/03/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	11/03/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/03/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	11/03/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	11/03/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	11/03/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1611028
Project: MVSC

Client Sample ID: SYS-110216
Lab ID: 1611028-001A
Sample Type: Summa Canister

Date Sampled: 11/2/2016
Date Received: 11/2/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	11/03/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	11/03/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	11/03/2016	BC
Chloroform	2.35	11.5	0.200	0.977		EPA-TO-15	11/03/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	11/03/2016	BC
cis-1,2-Dichloroethene	1.25	4.96	0.200	0.793		EPA-TO-15	11/03/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/03/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	11/03/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	11/03/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	11/03/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/03/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	11/03/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	11/03/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	11/03/2016	BC
m,p-Xylene	0.750	3.26	0.200	0.868		EPA-TO-15	11/03/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	11/03/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	11/03/2016	BC
Naphthalene	0.500	2.62	0.300	1.57		EPA-TO-15	11/03/2016	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	11/03/2016	BC
o-Xylene	0.310	1.35	0.200	0.868		EPA-TO-15	11/03/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/03/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	11/03/2016	BC
Styrene	0.300	1.28	0.300	1.28		EPA-TO-15	11/03/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	11/03/2016	BC
Tetrachloroethene (PCE)	193	1,310	4.80	32.6		EPA-TO-15	11/03/2016	BC
Tetrahydrofuran	8.70	25.7	0.500	1.47		EPA-TO-15	11/03/2016	BC
Toluene	0.570	2.15	0.200	0.754		EPA-TO-15	11/03/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/03/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/03/2016	BC
Trichloroethene (TCE)	1.05	5.64	0.200	1.07		EPA-TO-15	11/03/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1611028
Project: MVSC

Client Sample ID: SYS-110216
Lab ID: 1611028-001A
Sample Type: Summa Canister

Date Sampled: 11/2/2016
Date Received: 11/2/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	0.550	3.09	0.300	1.69		EPA-TO-15	11/03/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	11/03/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/03/2016	BC
Surr: 4-Bromofluorobenzene	96.4 %Rec	--	70-130	--		EPA-TO-15	11/03/2016	BC

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32709** SampType: **LCS** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **LCSW** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619520**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	187	1.00	180.0	0	104	70	130				
Propylene	5.03	0.500	5.000	0	101	70	130				
Dichlorodifluoromethane (CFC-12)	5.28	0.300	5.000	0	106	70	130				
Chloromethane	4.73	0.500	5.000	0	94.6	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.91	0.500	5.000	0	98.2	70	130				
Vinyl chloride	4.75	0.200	5.000	0	95.0	70	130				
1,3-Butadiene	4.83	0.500	5.000	0	96.6	70	130				
Bromomethane	4.68	0.500	5.000	0	93.6	70	130				
Trichlorofluoromethane (CFC-11)	4.76	0.300	5.000	0	95.2	70	130				
Chloroethane	4.54	0.500	5.000	0	90.8	70	130				
Acrolein	5.01	0.500	5.000	0	100	70	130				
1,1-Dichloroethene (DCE)	4.82	0.200	5.000	0	96.4	70	130				
Acetone	5.40	1.00	5.000	0	108	70	130				
Isopropyl Alcohol	4.97	1.00	5.000	0	99.4	70	130				
Methylene chloride	4.63	1.50	5.000	0	92.6	70	130				
Carbon disulfide	4.66	1.50	5.000	0	93.2	70	130				
trans-1,2-Dichloroethene	4.48	0.200	5.000	0	89.6	70	130				
Methyl tert-butyl ether (MTBE)	5.24	0.200	5.000	0	105	70	130				
Hexane	4.84	0.200	5.000	0	96.8	70	130				
1,1-Dichloroethane	4.66	0.200	5.000	0	93.2	70	130				
Vinyl acetate	4.70	1.00	5.000	0	94.0	70	130				
cis-1,2-Dichloroethene	4.65	0.200	5.000	0	93.0	70	130				
(MEK) 2-Butanone	5.44	0.500	5.000	0	109	70	130				
Ethyl acetate	5.63	1.00	5.000	0	113	70	130				
Chloroform	4.90	0.200	5.000	0	98.0	70	130				
Tetrahydrofuran	5.49	0.500	5.000	0	110	70	130				
1,1,1-Trichloroethane	4.80	0.200	5.000	0	96.0	70	130				
Carbon tetrachloride	4.77	0.200	5.000	0	95.4	70	130				
1,2-Dichloroethane	4.78	0.200	5.000	0	95.6	70	130				
Benzene	4.92	0.200	5.000	0	98.4	70	130				
Cyclohexane	4.71	0.200	5.000	0	94.2	70	130				

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32709** SampType: **LCS** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **LCSW** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619520**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	4.55	0.200	5.000	0	91.0	70	130				
1,2-Dichloropropane	4.69	0.500	5.000	0	93.8	70	130				
Methyl methacrylate	5.38	0.300	5.000	0	108	70	130				
Dichlorobromomethane	4.44	0.300	5.000	0	88.8	70	130				
1,4-Dioxane	4.78	1.00	5.000	0	95.6	70	130				
cis-1,3-dichloropropene	4.52	0.500	5.000	0	90.4	70	130				
Toluene	4.75	0.200	5.000	0	95.0	70	130				
trans-1,3-dichloropropene	4.98	0.500	5.000	0	99.6	70	130				
1,1,2-Trichloroethane (TCA)	4.76	0.500	5.000	0	95.2	70	130				
Tetrachloroethene (PCE)	4.38	0.300	5.000	0	87.6	70	130				
Dibromochloromethane	4.74	0.500	5.000	0	94.8	70	130				
1,2-Dibromoethane (EDB)	4.52	0.200	5.000	0	90.4	70	130				
Chlorobenzene	4.86	0.200	5.000	0	97.2	70	130				
Ethylbenzene	5.15	0.300	5.000	0	103	70	130				
m,p-Xylene	9.76	0.200	10.00	0	97.6	70	130				
o-Xylene	4.87	0.200	5.000	0	97.4	70	130				
Styrene	4.91	0.300	5.000	0	98.2	70	130				
Bromoform	4.94	0.200	5.000	0	98.8	70	130				
1,1,2,2-Tetrachloroethane	4.94	0.300	5.000	0	98.8	70	130				
1,3,5-Trimethylbenzene	4.93	0.300	5.000	0	98.6	70	130				
1,2,4-Trimethylbenzene	4.94	0.300	5.000	0	98.8	70	130				
Benzyl chloride	5.19	0.500	5.000	0	104	70	130				
4-Ethyltoluene	5.19	0.300	5.000	0	104	70	130				
1,3-Dichlorobenzene	5.19	0.300	5.000	0	104	70	130				
1,4-Dichlorobenzene	5.22	0.300	5.000	0	104	70	130				
1,2-Dichlorobenzene	5.10	0.500	5.000	0	102	70	130				
1,2,4-Trichlorobenzene	4.91	0.300	5.000	0	98.2	70	130				
Hexachlorobutadiene	5.18	1.00	5.000	0	104	70	130				
Naphthalene	5.12	0.300	5.000	0	102	70	130				
2-Hexanone	4.77	1.00	5.000	0	95.4	70	130				
4-Methyl-2-pentanone (MIBK)	4.93	1.00	5.000	0	98.6	70	130				

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32709** SampType: **LCS** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **LCSW** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619520**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
CFC-113	4.75	0.500	5.000	0	95.0	70	130				
Heptane	4.71	0.500	5.000	0	94.2	70	130				
Surr: 4-Bromofluorobenzene	9.94		10.00		99.4	70	130				

Sample ID **MB-R32709** SampType: **MBLK** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **MBLKW** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619521**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	5.40	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R32709**	SampType: **MBLK**		Units: **ppbv**	Prep Date: **11/3/2016**		RunNo: **32709**	
Client ID: **MBLKW**	Batch ID: **R32709**			Analysis Date: **11/3/2016**		SeqNo: **619521**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**MB-R32709**	SampType: **MBLK**		Units: **ppbv**		Prep Date: **11/3/2016**		RunNo: **32709**	
Client ID:	**MBLKW**	Batch ID: **R32709**				Analysis Date: **11/3/2016**		SeqNo: **619521**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.90		10.00		99.0	70	130				

Sample ID	**1611027-001AREP**	SampType: **REP**		Units: **ppbv**		Prep Date: **11/3/2016**		RunNo: **32709**	
Client ID:	**BATCH**	Batch ID: **R32709**				Analysis Date: **11/3/2016**		SeqNo: **619512**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	622	2.00						677.6	8.52	30	
Dichlorodifluoromethane (CFC-12)	ND	1.20						0		30	
Chloromethane	ND	2.00						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	2.00						0		30	
Vinyl chloride	ND	0.800						0		30	
1,3-Butadiene	ND	2.00						0		30	
Bromomethane	ND	2.00						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.20						0		30	
Chloroethane	ND	2.00						0		30	
Acrolein	ND	2.00						0		30	
1,1-Dichloroethene (DCE)	ND	0.800						0		30	
Acetone	9.76	4.00						10.48	7.11	30	
Isopropyl Alcohol	ND	4.00						0		30	
Methylene chloride	ND	6.00						0		30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619512**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	ND	6.00						0		30	
trans-1,2-Dichloroethene	ND	0.800						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.800						0		30	
Hexane	ND	0.800						0		30	
1,1-Dichloroethane	ND	0.800						0		30	
Vinyl acetate	ND	4.00						0		30	
cis-1,2-Dichloroethene	ND	0.800						0		30	
(MEK) 2-Butanone	ND	2.00						0		30	
Ethyl acetate	ND	4.00						0		30	
Chloroform	ND	0.800						0		30	
Tetrahydrofuran	ND	2.00						0		30	
1,1,1-Trichloroethane	ND	0.800						0		30	
Carbon tetrachloride	ND	0.800						0		30	
1,2-Dichloroethane	ND	0.800						0		30	
Benzene	ND	0.800						0		30	
Cyclohexane	ND	0.800						0		30	
Trichloroethene (TCE)	ND	0.800						0		30	
1,2-Dichloropropane	ND	2.00						0		30	
Methyl methacrylate	ND	1.20						0		30	
Dichlorobromomethane	ND	1.20						0		30	
1,4-Dioxane	ND	4.00						0		30	
cis-1,3-dichloropropene	ND	2.00						0		30	
Toluene	ND	0.800						0		30	
trans-1,3-dichloropropene	ND	2.00						0		30	
1,1,2-Trichloroethane (TCA)	ND	2.00						0		30	
Tetrachloroethene (PCE)	ND	1.20						0		30	
Dibromochloromethane	ND	2.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.800						0		30	
Chlorobenzene	ND	0.800						0		30	
Ethylbenzene	ND	1.20						0		30	
m,p-Xylene	ND	0.800						0		30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619512**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.800						0		30	
Styrene	ND	1.20						0		30	
Bromoform	ND	0.800						0		30	
1,1,2,2-Tetrachloroethane	ND	1.20						0		30	
1,3,5-Trimethylbenzene	ND	1.20						0		30	
1,2,4-Trimethylbenzene	ND	1.20						0		30	
Benzyl chloride	ND	2.00						0		30	
4-Ethyltoluene	ND	1.20						0		30	
1,3-Dichlorobenzene	ND	1.20						0		30	
1,4-Dichlorobenzene	ND	1.20						0		30	
1,2-Dichlorobenzene	ND	2.00						0		30	
1,2,4-Trichlorobenzene	ND	1.20						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
Naphthalene	ND	1.20						0		30	
2-Hexanone	ND	4.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	4.00						0		30	
CFC-113	ND	2.00						0		30	
Heptane	ND	2.00						0		30	
Surr: 4-Bromofluorobenzene	39.2		40.00		98.1	70	130		0		

Sample ID **1611027-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619515**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	813	2.00						809.4	0.399	30	
Dichlorodifluoromethane (CFC-12)	ND	1.20						0		30	
Chloromethane	ND	2.00						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	2.00						0		30	
Vinyl chloride	1.88	0.800						1.840	2.15	30	
1,3-Butadiene	ND	2.00						0		30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619515**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	2.00						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.20						0		30	
Chloroethane	ND	2.00						0		30	
Acrolein	ND	2.00						0		30	
1,1-Dichloroethene (DCE)	ND	0.800						0		30	
Acetone	40.2	4.00						40.52	0.892	30	
Isopropyl Alcohol	ND	4.00						0		30	
Methylene chloride	ND	6.00						0		30	
Carbon disulfide	ND	6.00						0		30	
trans-1,2-Dichloroethene	ND	0.800						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.800						0		30	
Hexane	90.0	0.800						88.12	2.07	30	
1,1-Dichloroethane	ND	0.800						0		30	
Vinyl acetate	ND	4.00						0		30	
cis-1,2-Dichloroethene	2.44	0.800						2.360	3.33	30	
(MEK) 2-Butanone	4.48	2.00						4.880	8.55	30	
Ethyl acetate	ND	4.00						0		30	
Chloroform	1.32	0.800						1.360	2.99	30	
Tetrahydrofuran	2.28	2.00						2.240	1.77	30	
1,1,1-Trichloroethane	ND	0.800						0		30	
Carbon tetrachloride	ND	0.800						0		30	
1,2-Dichloroethane	ND	0.800						0		30	
Benzene	7.52	0.800						7.520	0	30	
Cyclohexane	ND	0.800						0		30	
Trichloroethene (TCE)	2.80	0.800						2.920	4.20	30	
1,2-Dichloropropane	ND	2.00						0		30	
Methyl methacrylate	ND	1.20						0		30	
Dichlorobromomethane	ND	1.20						0		30	
1,4-Dioxane	ND	4.00						0		30	
cis-1,3-dichloropropene	ND	2.00						0		30	
Toluene	156	0.800						168.8	7.96	30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619515**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-dichloropropene	ND	2.00						0		30	
1,1,2-Trichloroethane (TCA)	ND	2.00						0		30	
Tetrachloroethene (PCE)	3.96	1.20						3.760	5.18	30	
Dibromochloromethane	ND	2.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.800						0		30	
Chlorobenzene	2.48	0.800						2.560	3.17	30	
Ethylbenzene	3.04	1.20						3.040	0	30	
m,p-Xylene	3.44	0.800						3.600	4.55	30	
o-Xylene	1.36	0.800						1.480	8.45	30	
Styrene	ND	1.20						0		30	
Bromoform	ND	0.800						0		30	
1,1,2,2-Tetrachloroethane	ND	1.20						0		30	
1,3,5-Trimethylbenzene	ND	1.20						0		30	
1,2,4-Trimethylbenzene	ND	1.20						0		30	
Benzyl chloride	ND	2.00						0		30	
4-Ethyltoluene	ND	1.20						0		30	
1,3-Dichlorobenzene	ND	1.20						0		30	
1,4-Dichlorobenzene	4.92	1.20						4.960	0.810	30	
1,2-Dichlorobenzene	ND	2.00						0		30	
1,2,4-Trichlorobenzene	ND	1.20						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
Naphthalene	ND	1.20						0		30	
2-Hexanone	ND	4.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	4.00						0		30	
CFC-113	ND	2.00						0		30	
Heptane	163	2.00						172.6	5.60	30	
Surr: 4-Bromofluorobenzene	39.8		40.00		99.6	70	130		0		

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619517**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	4.00						0		30	
Propylene	11.2	2.00						10.56	6.24	30	
Dichlorodifluoromethane (CFC-12)	ND	1.20						0		30	
Chloromethane	ND	2.00						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	2.00						0		30	
Vinyl chloride	ND	0.800						0		30	
1,3-Butadiene	ND	2.00						0		30	
Bromomethane	ND	2.00						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.20						0		30	
Chloroethane	ND	2.00						0		30	
Acrolein	ND	2.00						0		30	
1,1-Dichloroethene (DCE)	ND	0.800						0		30	
Acetone	9.24	4.00						9.040	2.19	30	
Isopropyl Alcohol	ND	4.00						0		30	
Methylene chloride	ND	6.00						0		30	
Carbon disulfide	ND	6.00						0		30	
trans-1,2-Dichloroethene	ND	0.800						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.800						0		30	
Hexane	ND	0.800						0		30	
1,1-Dichloroethane	ND	0.800						0		30	
Vinyl acetate	ND	4.00						0		30	
cis-1,2-Dichloroethene	ND	0.800						0		30	
(MEK) 2-Butanone	ND	2.00						0		30	
Ethyl acetate	ND	4.00						0		30	
Chloroform	ND	0.800						0		30	
Tetrahydrofuran	ND	2.00						0		30	
1,1,1-Trichloroethane	ND	0.800						0		30	
Carbon tetrachloride	ND	0.800						0		30	
1,2-Dichloroethane	ND	0.800						0		30	
Benzene	ND	0.800						0		30	
Cyclohexane	ND	0.800						0		30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619517**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	ND	0.800						0		30	
1,2-Dichloropropane	ND	2.00						0		30	
Methyl methacrylate	ND	1.20						0		30	
Dichlorobromomethane	ND	1.20						0		30	
1,4-Dioxane	ND	4.00						0		30	
cis-1,3-dichloropropene	ND	2.00						0		30	
Toluene	1.20	0.800						1.360	12.5	30	
trans-1,3-dichloropropene	ND	2.00						0		30	
1,1,2-Trichloroethane (TCA)	ND	2.00						0		30	
Tetrachloroethene (PCE)	ND	1.20						0		30	
Dibromochloromethane	ND	2.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.800						0		30	
Chlorobenzene	ND	0.800						0		30	
Ethylbenzene	ND	1.20						0		30	
m,p-Xylene	1.16	0.800						1.200	3.39	30	
o-Xylene	ND	0.800						0		30	
Styrene	ND	1.20						0		30	
Bromoform	ND	0.800						0		30	
1,1,2,2-Tetrachloroethane	ND	1.20						0		30	
1,3,5-Trimethylbenzene	ND	1.20						0		30	
1,2,4-Trimethylbenzene	ND	1.20						0		30	
Benzyl chloride	ND	2.00						0		30	
4-Ethyltoluene	ND	1.20						0		30	
1,3-Dichlorobenzene	ND	1.20						0		30	
1,4-Dichlorobenzene	ND	1.20						0		30	
1,2-Dichlorobenzene	ND	2.00						0		30	
1,2,4-Trichlorobenzene	ND	1.20						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
Naphthalene	ND	1.20						0		30	
2-Hexanone	ND	4.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	4.00						0		30	

Work Order: 1611028
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611027-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/3/2016** RunNo: **32709**
Client ID: **BATCH** Batch ID: **R32709** Analysis Date: **11/3/2016** SeqNo: **619517**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
CFC-113	ND	2.00						0		30	
Heptane	ND	2.00						0		30	
Surr: 4-Bromofluorobenzene	40.3		40.00		101	70	130		0		

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1611028**
Logged by:	**Clare Griggs**	Date Received:	**11/2/2016 1:18:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Fremont Analytical

Chain of Custody Record and Laboratory Services Agreement

3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 11-2-16

Laboratory Project No (internal): 1611028

Page: 1 of: 1

Client: PBS Environmental Inc.
Address: 1215 4th Ave Ste 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax:

Project Name: MVSC
Project No: 1358.001.01.007
Location: Normandy Park, WA
Report To (PM): Matt Pahl
PM Email: MPahl@pbsenv.com
Collected by: Karsten Springstead

*Matrix Codes: A = Air, AQ = Aqueous, B = Bulk, O = Other, P = Product, S = Soil, SD = Sediment, SL = Solid, W = Water, DW = Drinking Water, GW = Ground Water, SW = Storm Water, WW = Waste Water

	Sample Name	Sample Date	Sample Time	Sample Type (Matrix)*	VOCs (EPA 8260 / 624)	GX/BTEX	BTEX	Gasoline Range Organics (GX)	Hydrocarbon Identification (HCID)	Diesel/Heavy Oil Range Organics (DX)	SVOCs (EPA 8270 / 625)	PAHs (EPA 8270 - SIM / 625)	PCBs (EPA 8082 / 608)	Metals** (EPA 6020 / 200.8)	Total (T) | Dissolved (D)	Anions (IC)***	EDB (8011)	TO-15			Comments
1	SVS-110216	11-2-16	1130	AIR													X				Gauge didn't work
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					

**Metals Analysis (Circle): MTCA-5 RCRA-8 Priority Pollutants TAL *Individual:* Ag Al As B Ba Be Ca Cd Co Cr Cu Fe Hg K Mg Mn Mo Na Ni Pb Sb Se Sr Sn Ti Tl U V Zn

***Anions (Circle): Nitrate Nitrite Chloride Sulfate Bromide O-Phosphate Fluoride Nitrate+Nitrite

Sample Disposal: ☐ Return to Client ☐ Disposal by Lab (Samples will be held for 30 days unless otherwise noted. A fee may be assessed if samples are retained after 30 days.)

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	11-2-16/1318	x WF 11/3/16 WF 11/2/16	13:18
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT → SameDay^ NextDay^ 2 Day 3 Day STD

^Please coordinate with the lab in advance

MEMORANDUM

TO: Project File **DATE:** December 29, 2016

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: November 2, 2016 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1611028

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on November 2, 2016. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1611028.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15was performed within one day of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs with the following exception:

> Methylene chloride, a common laboratory contaminant, was detected above the MRL (1.50 ppbv) at 5.40 ppbv. Methylene chloride was not detected in the associated sample. No data qualifications were warranted.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate Analyses

A laboratory duplicate was performed on three non-client samples within the same analytical batch. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD). No qualifications were warranted.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blank, duplicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130%.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1611132

November 18, 2016

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 11/11/2016 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *11/18/2016*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1611132

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611132-001	SYS-111016	11/10/2016 2:00 PM	11/11/2016 3:09 PM

Case Narrative

WO#: **1611132**

Date: **11/18/2016**

CLIENT: PES Environmental, Inc.

Project: MVSC

I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Results are reported on a wet weight basis unless dry-weight correction is denoted in the units field on the analytical report ("mg/kg-dry" or "ug/kg-dry").

Matrix Spike (MS) and MS Duplicate (MSD) samples are tested from an analytical batch of "like" matrix to check for possible matrix effect. The MS and MSD will provide site specific matrix data only for those samples which are spiked by the laboratory. The sample chosen for spike purposes may or may not have been a sample submitted in this sample delivery group. The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples and the MS/MSD to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: **PES Environmental, Inc.**
WorkOrder: 1611132
Project: MVSC

Client Sample ID: SYS-111016
Lab ID: 1611132-001A
Sample Type: Summa Canister

Date Sampled: 11/10/2016
Date Received: 11/11/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	11/12/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	11/12/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	11/12/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	11/12/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	11/12/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/12/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	11/12/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/12/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	11/12/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	11/12/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	11/12/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	11/12/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/12/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	11/12/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/12/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/12/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/12/2016	BC
(MEK) 2-Butanone	0.620	1.83	0.500	1.47		EPA-TO-15	11/12/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/12/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	11/12/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/12/2016	BC
Acetone	3.13	7.44	1.00	2.38		EPA-TO-15	11/12/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	11/12/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	11/12/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	11/12/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	11/12/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/12/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	11/12/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	11/12/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	11/12/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1611132
Project: MVSC

Client Sample ID: SYS-111016
Lab ID: 1611132-001A
Sample Type: Summa Canister

Date Sampled: 11/10/2016
Date Received: 11/11/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	11/12/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	11/12/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	11/12/2016	BC
Chloroform	1.29	6.30	0.200	0.977		EPA-TO-15	11/12/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	11/12/2016	BC
cis-1,2-Dichloroethene	1.11	4.40	0.200	0.793		EPA-TO-15	11/12/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/12/2016	BC
Cyclohexane	0.650	2.24	0.200	0.688		EPA-TO-15	11/12/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	11/12/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	11/12/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/12/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	11/12/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	11/12/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	11/12/2016	BC
m,p-Xylene	0.280	1.22	0.200	0.868		EPA-TO-15	11/12/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	11/12/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	11/12/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	11/12/2016	BC
Hexane	0.340	1.20	0.200	0.705		EPA-TO-15	11/12/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	11/12/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/12/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	11/12/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	11/12/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	11/12/2016	BC
Tetrachloroethene (PCE)	142	966	0.480	3.26		EPA-TO-15	11/11/2016	BC
Tetrahydrofuran	1.77	5.22	0.500	1.47		EPA-TO-15	11/12/2016	BC
Toluene	0.310	1.17	0.200	0.754		EPA-TO-15	11/12/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/12/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/12/2016	BC
Trichloroethene (TCE)	1.01	5.43	0.200	1.07		EPA-TO-15	11/12/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1611132
Project: MVSC

Client Sample ID: SYS-111016
Lab ID: 1611132-001A
Sample Type: Summa Canister

Date Sampled: 11/10/2016
Date Received: 11/11/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	0.570	3.20	0.300	1.69		EPA-TO-15	11/12/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	11/12/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/12/2016	BC
Surr: 4-Bromofluorobenzene	88.8 %Rec	--	70-130	--		EPA-TO-15	11/12/2016	BC

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32901** SampType: **LCS** Units: **ppbv** Prep Date: **11/11/2016** RunNo: **32901**
Client ID: **LCSW** Batch ID: **R32901** Analysis Date: **11/11/2016** SeqNo: **623483**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	4.92	0.500	5.000	0	98.4	70	130				
Dichlorodifluoromethane (CFC-12)	5.02	0.300	5.000	0	100	70	130				
Chloromethane	4.53	0.500	5.000	0	90.6	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.57	0.500	5.000	0	91.4	70	130				
Vinyl chloride	4.57	0.200	5.000	0	91.4	70	130				
1,3-Butadiene	4.47	0.500	5.000	0	89.4	70	130				
Bromomethane	4.46	0.500	5.000	0	89.2	70	130				
Trichlorofluoromethane (CFC-11)	4.60	0.300	5.000	0	92.0	70	130				
Chloroethane	4.40	0.500	5.000	0	88.0	70	130				
Acrolein	5.09	0.500	5.000	0	102	70	130				
1,1-Dichloroethene (DCE)	4.51	0.200	5.000	0	90.2	70	130				
Acetone	4.87	1.00	5.000	0	97.4	70	130				
Isopropyl Alcohol	4.91	1.00	5.000	0	98.2	70	130				
Methylene chloride	4.25	1.50	5.000	0	85.0	70	130				
Carbon disulfide	4.45	1.50	5.000	0	89.0	70	130				
trans-1,2-Dichloroethene	4.62	0.200	5.000	0	92.4	70	130				
Methyl tert-butyl ether (MTBE)	5.32	0.200	5.000	0	106	70	130				
Hexane	4.52	0.200	5.000	0	90.4	70	130				
1,1-Dichloroethane	4.37	0.200	5.000	0	87.4	70	130				
Vinyl acetate	5.02	1.00	5.000	0	100	70	130				
cis-1,2-Dichloroethene	4.69	0.200	5.000	0	93.8	70	130				
(MEK) 2-Butanone	5.36	0.500	5.000	0	107	70	130				
Ethyl acetate	5.03	1.00	5.000	0	101	70	130				
Chloroform	4.31	0.200	5.000	0	86.2	70	130				
Tetrahydrofuran	5.19	0.500	5.000	0	104	70	130				
1,1,1-Trichloroethane	4.50	0.200	5.000	0	90.0	70	130				
Carbon tetrachloride	4.63	0.200	5.000	0	92.6	70	130				
1,2-Dichloroethane	4.44	0.200	5.000	0	88.8	70	130				
Benzene	4.66	0.200	5.000	0	93.2	70	130				
Cyclohexane	4.56	0.200	5.000	0	91.2	70	130				
Trichloroethene (TCE)	4.47	0.200	5.000	0	89.4	70	130				

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R32901** SampType: **LCS** Units: **ppbv** Prep Date: **11/11/2016** RunNo: **32901**
Client ID: **LCSW** Batch ID: **R32901** Analysis Date: **11/11/2016** SeqNo: **623483**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	4.37	0.500	5.000	0	87.4	70	130				
Methyl methacrylate	5.24	0.300	5.000	0	105	70	130				
Dichlorobromomethane	4.25	0.300	5.000	0	85.0	70	130				
1,4-Dioxane	4.77	1.00	5.000	0	95.4	70	130				
cis-1,3-dichloropropene	4.51	0.500	5.000	0	90.2	70	130				
Toluene	4.59	0.200	5.000	0	91.8	70	130				
trans-1,3-dichloropropene	4.75	0.500	5.000	0	95.0	70	130				
1,1,2-Trichloroethane (TCA)	4.61	0.500	5.000	0	92.2	70	130				
Tetrachloroethene (PCE)	4.76	0.300	5.000	0	95.2	70	130				
Dibromochloromethane	4.56	0.500	5.000	0	91.2	70	130				
1,2-Dibromoethane (EDB)	4.54	0.200	5.000	0	90.8	70	130				
Chlorobenzene	4.66	0.200	5.000	0	93.2	70	130				
Ethylbenzene	4.73	0.300	5.000	0	94.6	70	130				
m,p-Xylene	9.39	0.200	10.00	0	93.9	70	130				
o-Xylene	4.74	0.200	5.000	0	94.8	70	130				
Styrene	4.73	0.300	5.000	0	94.6	70	130				
Bromoform	4.74	0.200	5.000	0	94.8	70	130				
1,1,2,2-Tetrachloroethane	4.79	0.300	5.000	0	95.8	70	130				
1,3,5-Trimethylbenzene	4.95	0.300	5.000	0	99.0	70	130				
1,2,4-Trimethylbenzene	4.65	0.300	5.000	0	93.0	70	130				
Benzyl chloride	4.63	0.500	5.000	0	92.6	70	130				
4-Ethyltoluene	5.01	0.300	5.000	0	100	70	130				
1,3-Dichlorobenzene	4.67	0.300	5.000	0	93.4	70	130				
1,4-Dichlorobenzene	4.82	0.300	5.000	0	96.4	70	130				
1,2-Dichlorobenzene	4.62	0.500	5.000	0	92.4	70	130				
1,2,4-Trichlorobenzene	5.09	0.300	5.000	0	102	70	130				
Hexachlorobutadiene	5.32	1.00	5.000	0	106	70	130				
Naphthalene	4.85	0.300	5.000	0	97.0	70	130				
2-Hexanone	4.49	1.00	5.000	0	89.8	70	130				
4-Methyl-2-pentanone (MIBK)	4.66	1.00	5.000	0	93.2	70	130				
CFC-113	4.32	0.500	5.000	0	86.4	70	130				

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**LCS-R32901**	SampType: **LCS**		Units: **ppbv**		Prep Date: **11/11/2016**		RunNo: **32901**			
Client ID:	**LCSW**	Batch ID: **R32901**				Analysis Date: **11/11/2016**		SeqNo: **623483**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.28	0.500	5.000	0	85.6	70	130				
Surr: 4-Bromofluorobenzene	9.41		10.00		94.1	70	130				

Sample ID	**MB-R32901**	SampType: **MBLK**		Units: **ppbv**		Prep Date: **11/11/2016**		RunNo: **32901**			
Client ID:	**MBLKW**	Batch ID: **R32901**				Analysis Date: **11/11/2016**		SeqNo: **623497**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R32901** SampType: **MBLK** Units: **ppbv** Prep Date: **11/11/2016** RunNo: **32901**
Client ID: **MBLKW** Batch ID: **R32901** Analysis Date: **11/11/2016** SeqNo: **623497**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R32901** SampType: **MBLK** Units: **ppbv** Prep Date: **11/11/2016** RunNo: **32901**
Client ID: **MBLKW** Batch ID: **R32901** Analysis Date: **11/11/2016** SeqNo: **623497**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.41		10.00		94.1	70	130				

Sample ID **1611125-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **BATCH** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623471**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	2.42	0.500						2.560	5.62	30	
Dichlorodifluoromethane (CFC-12)	ND	0.300						0		30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.300						0		30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	11.7	1.00						11.64	0.257	30	
Isopropyl Alcohol	153	1.00						152.8	0.0393	30	E
Methylene chloride	ND	1.50						0		30	
Carbon disulfide	ND	1.50						0		30	

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611125-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **BATCH** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623471**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
Hexane	1.06	0.200						1.080	1.87	30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	0.200						0		30	
(MEK) 2-Butanone	1.27	0.500						1.250	1.59	30	
Ethyl acetate	ND	1.00						0		30	
Chloroform	ND	0.200						0		30	
Tetrahydrofuran	ND	0.500						0		30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	0.590	0.200						0.5500	7.02	30	
Cyclohexane	0.300	0.200						0.3100	3.28	30	
Trichloroethene (TCE)	ND	0.200						0		30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	1.93	0.200						2.010	4.06	30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	ND	0.300						0		30	
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	0.380	0.300						0.3700	2.67	30	
m,p-Xylene	1.30	0.200						1.230	5.53	30	
o-Xylene	0.500	0.200						0.4900	2.02	30	

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611125-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **BATCH** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623471**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	0.360	0.300						0.3400	5.71	30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	9.77		10.00		97.7	70	130		0		

NOTES:
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample ID **1611132-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **SYS-111016** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623482**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500						0		30	
Dichlorodifluoromethane (CFC-12)	ND	0.300						0		30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611132-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **SYS-111016** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623482**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	0.600	0.300						0.5700	5.13	30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	3.08	1.00						3.130	1.61	30	
Isopropyl Alcohol	ND	1.00						0		30	
Methylene chloride	ND	1.50						0		30	
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
Hexane	0.330	0.200						0.3400	2.99	30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	1.12	0.200						1.110	0.897	30	
(MEK) 2-Butanone	ND	0.500						0.6200	200	30	R
Ethyl acetate	ND	1.00						0		30	
Chloroform	1.39	0.200						1.290	7.46	30	
Tetrahydrofuran	1.74	0.500						1.770	1.71	30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	ND	0.200						0		30	
Cyclohexane	0.630	0.200						0.6500	3.13	30	
Trichloroethene (TCE)	1.05	0.200						1.010	3.88	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	0.320	0.200						0.3100	3.17	30	

Work Order: 1611132
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611132-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/12/2016** RunNo: **32901**
Client ID: **SYS-111016** Batch ID: **R32901** Analysis Date: **11/12/2016** SeqNo: **623482**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	149	0.300						151.3	1.85	30	E
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	ND	0.300						0		30	
m,p-Xylene	0.290	0.200						0.2800	3.51	30	
o-Xylene	ND	0.200						0		30	
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	ND	0.300						0		30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	9.23		10.00		92.3	70	130		0		

NOTES:
R - High RPD due to low analyte concentration. In this range, high RPD's may be expected.
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1611132**
Logged by:	**Clare Griggs**	Date Received:	**11/11/2016 3:09:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790 Fax: 206-352-7178

Laboratory Project No (Internal): 1611132

Date: 11-10-16 Page: 1 of: 1

Client: PES
Address: 1215 4th Ave STE 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax: 206-529-3585

Project Name: MUSC
Project No: 1358.001.01.007 Collected by: K. Springstead
Location: Normandy Park, WA
Reports To (PM): Matt Dahl
Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-111016	12667 Canister Flow Reg	11-10-16 Date 1400 Time	SG	Grab	6L	Summa	10 mTorr Pressure 11/2/16 10:00 Date	Pressure Date/Time	Container Regulator	30 Pressure 1355 Time	3 Pressure 1400 Time	TO-15	11/14/16	-4
4		Canister Flow Reg	Date Time					Pressure Date	Pressure Date/Time	Container Regulator	Pressure Time	Pressure Time			
4		Canister Flow Reg	Date Time					Pressure Date	Pressure Date/Time	Container Regulator	Pressure Time	Pressure Time			
4		Canister Flow Reg	Date Time					Pressure Date	Pressure Date/Time	Container Regulator	Pressure Time	Pressure Time			
5		Canister Flow Reg	Date Time					Pressure Date	Pressure Date/Time	Container Regulator	Pressure Time	Pressure Time			

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	11/11/16 1509	x	11/11/16 1509
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT --> (STD) Rush (specify)

MEMORANDUM

TO: Project File **DATE:** December 29, 2016

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: November 10, 2016 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1611132

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on November 10, 2016. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1611132.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15was performed within two days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate Analyses

A laboratory duplicate was performed on client sample SYS-111016 and on a non-client sample. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD or within 2X reporting limit). No qualifications were warranted.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blank, duplicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130%.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: Manhattan Village Shopping Center
Work Order Number: 1611187

November 28, 2016

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 11/17/2016 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *11/28/2016*

CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center
Work Order: 1611187

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1611187-001	SYS-111617	11/16/2016 1:00 PM	11/17/2016 1:07 PM

Case Narrative

WO#: **1611187**
Date: **11/28/2016**

CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: **PES Environmental, Inc.**
WorkOrder: 1611187
Project: Manhattan Village Shopping Center

Client Sample ID: SYS-111617
Lab ID: 1611187-001A
Sample Type: Summa Canister

Date Sampled: 11/16/2016
Date Received: 11/17/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	11/22/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	11/22/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	11/22/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	11/22/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	11/22/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/22/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	11/22/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/22/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	11/22/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	11/22/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	11/22/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	11/22/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/22/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	11/22/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/22/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	11/22/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/22/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	11/22/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/22/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	11/22/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	11/22/2016	BC
Acetone	1.98	4.70	1.00	2.38		EPA-TO-15	11/22/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	11/22/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	11/22/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	11/22/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	11/22/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	11/22/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	11/22/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	11/22/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	11/22/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1611187
Project: Manhattan Village Shopping Center

Client Sample ID: SYS-111617
Lab ID: 1611187-001A
Sample Type: Summa Canister

Date Sampled: 11/16/2016
Date Received: 11/17/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	11/22/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	11/22/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	11/22/2016	BC
Chloroform	1.37	6.69	0.200	0.977		EPA-TO-15	11/22/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	11/22/2016	BC
cis-1,2-Dichloroethene	0.890	3.53	0.200	0.793		EPA-TO-15	11/22/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/22/2016	BC
Cyclohexane	0.510	1.76	0.200	0.688		EPA-TO-15	11/22/2016	BC
Dichlorodifluoromethane (CFC-12)	0.430	2.13	0.300	1.48		EPA-TO-15	11/22/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	11/22/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	11/22/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	11/22/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	11/22/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	11/22/2016	BC
m,p-Xylene	0.350	1.52	0.200	0.868		EPA-TO-15	11/22/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	11/22/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	11/22/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	11/22/2016	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	11/22/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	11/22/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	11/22/2016	BC
Propylene	0.620	1.07	0.500	0.861		EPA-TO-15	11/22/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	11/22/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	11/22/2016	BC
Tetrachloroethene (PCE)	139	942	4.80	32.6		EPA-TO-15	11/22/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	11/22/2016	BC
Toluene	0.330	1.24	0.200	0.754		EPA-TO-15	11/22/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	11/22/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	11/22/2016	BC
Trichloroethene (TCE)	0.780	4.19	0.200	1.07		EPA-TO-15	11/22/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1611187
Project: Manhattan Village Shopping Center

Client Sample ID: SYS-111617
Lab ID: 1611187-001A
Sample Type: Summa Canister

Date Sampled: 11/16/2016
Date Received: 11/17/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	0.900	5.06	0.300	1.69		EPA-TO-15	11/22/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	11/22/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	11/22/2016	BC
Surr: 4-Bromofluorobenzene	96.3 %Rec	--	70-130	--		EPA-TO-15	11/22/2016	BC

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33042** SampType: **LCS** Units: **ppbv** Prep Date: **11/21/2016** RunNo: **33042**
Client ID: **LCSW** Batch ID: **R33042** Analysis Date: **11/21/2016** SeqNo: **626166**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	3.80	0.500	5.000	0	76.0	70	130				
Dichlorodifluoromethane (CFC-12)	4.63	0.300	5.000	0	92.6	70	130				
Chloromethane	4.16	0.500	5.000	0	83.2	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.65	0.500	5.000	0	93.0	70	130				
Vinyl chloride	4.37	0.200	5.000	0	87.4	70	130				
1,3-Butadiene	4.34	0.500	5.000	0	86.8	70	130				
Bromomethane	4.99	0.500	5.000	0	99.8	70	130				
Trichlorofluoromethane (CFC-11)	4.41	0.300	5.000	0	88.2	70	130				
Chloroethane	4.45	0.500	5.000	0	89.0	70	130				
Acrolein	4.44	0.500	5.000	0	88.8	70	130				
1,1-Dichloroethene (DCE)	4.99	0.200	5.000	0	99.8	70	130				
Acetone	4.12	1.00	5.000	0	82.4	70	130				
Isopropyl Alcohol	4.30	1.00	5.000	0	86.0	70	130				
Methylene chloride	6.42	1.50	5.000	0	128	70	130				B
Carbon disulfide	4.69	1.50	5.000	0	93.8	70	130				
trans-1,2-Dichloroethene	4.72	0.200	5.000	0	94.4	70	130				
Methyl tert-butyl ether (MTBE)	4.41	0.200	5.000	0	88.2	70	130				
Hexane	4.17	0.200	5.000	0	83.4	70	130				
1,1-Dichloroethane	4.19	0.200	5.000	0	83.8	70	130				
Vinyl acetate	5.02	1.00	5.000	0	100	70	130				
cis-1,2-Dichloroethene	4.89	0.200	5.000	0	97.8	70	130				
(MEK) 2-Butanone	4.34	0.500	5.000	0	86.8	70	130				
Ethyl acetate	4.09	1.00	5.000	0	81.8	70	130				
Chloroform	4.20	0.200	5.000	0	84.0	70	130				
Tetrahydrofuran	4.29	0.500	5.000	0	85.8	70	130				
1,1,1-Trichloroethane	4.24	0.200	5.000	0	84.8	70	130				
Carbon tetrachloride	4.52	0.200	5.000	0	90.4	70	130				
1,2-Dichloroethane	3.89	0.200	5.000	0	77.8	70	130				
Benzene	4.61	0.200	5.000	0	92.2	70	130				
Cyclohexane	4.16	0.200	5.000	0	83.2	70	130				
Trichloroethene (TCE)	4.63	0.200	5.000	0	92.6	70	130				

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33042** SampType: **LCS** Units: **ppbv** Prep Date: **11/21/2016** RunNo: **33042**
Client ID: **LCSW** Batch ID: **R33042** Analysis Date: **11/21/2016** SeqNo: **626166**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	4.12	0.500	5.000	0	82.4	70	130				
Methyl methacrylate	4.26	0.300	5.000	0	85.2	70	130				
Dichlorobromomethane	4.22	0.300	5.000	0	84.4	70	130				
1,4-Dioxane	6.16	1.00	5.000	0	123	70	130				
cis-1,3-dichloropropene	4.28	0.500	5.000	0	85.6	70	130				
Toluene	4.73	0.200	5.000	0	94.6	70	130				
trans-1,3-dichloropropene	4.46	0.500	5.000	0	89.2	70	130				
1,1,2-Trichloroethane (TCA)	4.67	0.500	5.000	0	93.4	70	130				
Tetrachloroethene (PCE)	4.90	0.300	5.000	0	98.0	70	130				
Dibromochloromethane	4.65	0.500	5.000	0	93.0	70	130				
1,2-Dibromoethane (EDB)	4.71	0.200	5.000	0	94.2	70	130				
Chlorobenzene	4.70	0.200	5.000	0	94.0	70	130				
Ethylbenzene	4.62	0.300	5.000	0	92.4	70	130				
m,p-Xylene	8.89	0.200	10.00	0	88.9	70	130				
o-Xylene	4.41	0.200	5.000	0	88.2	70	130				
Styrene	4.79	0.300	5.000	0	95.8	70	130				
Bromoform	4.42	0.200	5.000	0	88.4	70	130				
1,1,2,2-Tetrachloroethane	4.28	0.300	5.000	0	85.6	70	130				
1,3,5-Trimethylbenzene	4.86	0.300	5.000	0	97.2	70	130				
1,2,4-Trimethylbenzene	4.80	0.300	5.000	0	96.0	70	130				
Benzyl chloride	4.60	0.500	5.000	0	92.0	70	130				
4-Ethyltoluene	4.70	0.300	5.000	0	94.0	70	130				
1,3-Dichlorobenzene	5.22	0.300	5.000	0	104	70	130				
1,4-Dichlorobenzene	5.14	0.300	5.000	0	103	70	130				
1,2-Dichlorobenzene	5.14	0.500	5.000	0	103	70	130				
1,2,4-Trichlorobenzene	4.36	0.300	5.000	0	87.2	70	130				
Hexachlorobutadiene	4.04	1.00	5.000	0	80.8	70	130				
Naphthalene	4.49	0.300	5.000	0	89.8	70	130				
2-Hexanone	4.37	1.00	5.000	0	87.4	70	130				
4-Methyl-2-pentanone (MIBK)	4.21	1.00	5.000	0	84.2	70	130				
CFC-113	4.90	0.500	5.000	0	98.0	70	130				

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**LCS-R33042**	SampType: **LCS**		Units: **ppbv**		Prep Date: **11/21/2016**		RunNo: **33042**	
Client ID:	**LCSW**	Batch ID: **R33042**				Analysis Date: **11/21/2016**		SeqNo: **626166**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	3.90	0.500	5.000	0	78.0	70	130				
Surr: 4-Bromofluorobenzene	9.69		10.00		96.9	70	130				

Sample ID	**MB-R33042**	SampType: **MBLK**		Units: **ppbv**		Prep Date: **11/21/2016**		RunNo: **33042**	
Client ID:	**MBLKW**	Batch ID: **R33042**				Analysis Date: **11/21/2016**		SeqNo: **626167**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	4.98	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33042** SampType: **MBLK** Units: **ppbv** Prep Date: **11/21/2016** RunNo: **33042**
Client ID: **MBLKW** Batch ID: **R33042** Analysis Date: **11/21/2016** SeqNo: **626167**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33042** SampType: **MBLK** Units: **ppbv** Prep Date: **11/21/2016** RunNo: **33042**
Client ID: **MBLKW** Batch ID: **R33042** Analysis Date: **11/21/2016** SeqNo: **626167**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.70		10.00		97.0	70	130				

Sample ID **1611218-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/22/2016** RunNo: **33042**
Client ID: **BATCH** Batch ID: **R33042** Analysis Date: **11/22/2016** SeqNo: **626161**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	1,320	1.00						1,466	10.7	30	E
Dichlorodifluoromethane (CFC-12)	ND	0.600						0		30	
Chloromethane	49.3	1.00						0	200	30	
Dichlorotetrafluoroethane (CFC-114)	ND	1.00						0		30	
Vinyl chloride	ND	0.400						0		30	
1,3-Butadiene	ND	1.00						0		30	
Bromomethane	ND	1.00						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.600						0		30	
Chloroethane	ND	1.00						0		30	
Acrolein	ND	1.00						0		30	
1,1-Dichloroethene (DCE)	ND	0.400						0		30	
Acetone	600	2.00						650.9	8.16	30	E
Isopropyl Alcohol	ND	2.00						0		30	
Methylene chloride	ND	3.00						0		30	
Carbon disulfide	ND	3.00						0		30	

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611218-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/22/2016** RunNo: **33042**
Client ID: **BATCH** Batch ID: **R33042** Analysis Date: **11/22/2016** SeqNo: **626161**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.400						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.400						0		30	
Hexane	300	0.400						321.0	6.65	30	E
1,1-Dichloroethane	ND	0.400						0		30	
Vinyl acetate	ND	2.00						34.68	200	30	R
cis-1,2-Dichloroethene	ND	0.400						0		30	
(MEK) 2-Butanone	19.2	1.00						19.50	1.65	30	
Ethyl acetate	ND	2.00						0		30	
Chloroform	ND	0.400						0		30	
Tetrahydrofuran	5.36	1.00						0	200	30	
1,1,1-Trichloroethane	ND	0.400						0		30	
Carbon tetrachloride	ND	0.400						0		30	
1,2-Dichloroethane	1.96	0.400						2.080	5.94	30	
Benzene	29.1	0.400						30.18	3.71	30	E
Cyclohexane	67.8	0.400						68.40	0.852	30	E
Trichloroethene (TCE)	ND	0.400						0		30	
1,2-Dichloropropane	ND	1.00						0		30	
Methyl methacrylate	ND	0.600						0		30	
Dichlorobromomethane	ND	0.600						4.640	200	30	R
1,4-Dioxane	ND	2.00						0		30	
cis-1,3-dichloropropene	ND	1.00						0		30	
Toluene	57.0	0.400						59.50	4.26	30	E
trans-1,3-dichloropropene	ND	1.00						0		30	
1,1,2-Trichloroethane (TCA)	ND	1.00						0		30	
Tetrachloroethene (PCE)	ND	0.600						0		30	
Dibromochloromethane	ND	1.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.400						0		30	
Chlorobenzene	ND	0.400						0		30	
Ethylbenzene	9.32	0.600						9.320	0	30	
m,p-Xylene	44.4	0.400						45.90	3.37	30	
o-Xylene	19.4	0.400						19.64	1.33	30	

Work Order: 1611187
CLIENT: PES Environmental, Inc.
Project: Manhattan Village Shopping Center

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1611218-002AREP** SampType: **REP** Units: **ppbv** Prep Date: **11/22/2016** RunNo: **33042**
Client ID: **BATCH** Batch ID: **R33042** Analysis Date: **11/22/2016** SeqNo: **626161**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	0.740	0.600						0.7800	5.26	30	
Bromoform	ND	0.400						0		30	
1,1,2,2-Tetrachloroethane	ND	0.600						0		30	
1,3,5-Trimethylbenzene	6.72	0.600						6.900	2.64	30	
1,2,4-Trimethylbenzene	8.16	0.600						8.580	5.02	30	
Benzyl chloride	ND	1.00						0		30	
4-Ethyltoluene	2.92	0.600						2.980	2.03	30	
1,3-Dichlorobenzene	ND	0.600						0		30	
1,4-Dichlorobenzene	ND	0.600						0		30	
1,2-Dichlorobenzene	ND	1.00						0		30	
1,2,4-Trichlorobenzene	ND	0.600						0		30	
Hexachlorobutadiene	ND	2.00						0		30	
Naphthalene	ND	0.600						0		30	
2-Hexanone	ND	2.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	2.00						0		30	
CFC-113	ND	1.00						0		30	
Heptane	128	1.00						131.7	2.51	30	E
Surr: 4-Bromofluorobenzene	19.5		20.00		97.4	70	130		0		

NOTES:
R - High RPD observed. The method is in control as indicated by the LCS.
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1611187**
Logged by:	**Clare Griggs**	Date Received:	**11/17/2016 1:07:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1611187

Date: 11-16-17 Page: 1 of: 1

Client: PES
Address: 1215 4th Ave STE 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax: 206-529-3985

Project Name: Manhattan Village Shopping Center
Project No: 1358. Collected by: Karsten Springstead
Location: Normandy Park, WA
Reports To (PM): Matt Dahl
Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-111617	17647 / 15901	11-16-17 / 1300	SG	Grab	6L	Summa	10 mTorr / 11/4/16 15:00			30 / 1250	2 / 1300	TO-15		
4															
4															
4															
5															

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	11-17-16 / 1307	x Wayne	11/17/16 13:07
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT --> STD Rush (specify)

MEMORANDUM

TO: Project File **DATE:** December 29, 2016

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: November 16, 2016 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1611187

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on November 16, 2016. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1611187.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15 was performed within six days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs with one exception:

> Methylene chloride, a common laboratory contaminant, was detected above the MRL (1.50 ppbv) at 4.98 ppbv. Methylene chloride was not detected in the associated sample. No data qualifications were warranted.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate Analyses

A laboratory duplicate was performed on a non-client sample within the same analytical batch. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD) with the following exceptions:

Chloromethane, vinyl acetate, tetrahydrofuran, and dichlorobromomethane RPDs were greater than laboratory acceptance criteria (30%). No action was taken since this is a non-client sample and not representative of sample collected from the site. The remainder of the VOC T0-15 compound RPDs met laboratory acceptance criteria.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blank, duplicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130%.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

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Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1612125

July 07, 2017

Attention Matt Dahl:

Fremont Analytical, Inc. received 23 sample(s) on 12/12/2016 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *07/07/2017*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1612125

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1612125-001	SVE-11A-121216	12/12/2016 2:20 PM	12/12/2016 3:39 PM
1612125-002	SYS-121216	12/12/2016 3:05 PM	12/12/2016 3:39 PM
1612125-003	SVE-18-121216	12/12/2016 2:00 PM	12/12/2016 3:39 PM
1612125-004	SVE-1-121216	12/12/2016 2:50 PM	12/12/2016 3:39 PM
1612125-005	SVE-6-121216	12/12/2016 1:45 PM	12/12/2016 3:39 PM
1612125-006	SVE-17-121216	12/12/2016 1:55 PM	12/12/2016 3:39 PM
1612125-007	SVE-13B-121216	12/12/2016 2:35 PM	12/12/2016 3:39 PM
1612125-008	SVE-15-121216	12/12/2016 3:00 PM	12/12/2016 3:39 PM
1612125-009	SVE-11B-121216	12/12/2016 2:25 PM	12/12/2016 3:39 PM
1612125-010	SVE-12B-121216	12/12/2016 2:25 PM	12/12/2016 3:39 PM
1612125-011	SVE-13A-121216	12/12/2016 2:40 PM	12/12/2016 3:39 PM
1612125-012	SVE-7-121216	12/12/2016 1:40 PM	12/12/2016 3:39 PM
1612125-013	SVE-10-121216	12/12/2016 1:35 PM	12/12/2016 3:39 PM
1612125-014	SVE-14-121216	12/12/2016 2:45 PM	12/12/2016 3:39 PM
1612125-015	SVE-9-121216	12/12/2016 1:30 PM	12/12/2016 3:39 PM
1612125-016	SVE-12A-121216	12/12/2016 2:30 PM	12/12/2016 3:39 PM
1612125-017	SVE-3-121216	12/12/2016 2:10 PM	12/12/2016 3:39 PM
1612125-018	SVE-5-121216	12/12/2016 1:50 PM	12/12/2016 3:39 PM
1612125-019	SVE-2-121216	12/12/2016 2:15 PM	12/12/2016 3:39 PM
1612125-020	SVE-16-121216	12/12/2016 2:55 PM	12/12/2016 3:39 PM
1612125-021	SVE-4-121216	12/12/2016 1:55 PM	12/12/2016 3:39 PM
1612125-022	SVE-8-121216	12/12/2016 1:25 PM	12/12/2016 3:39 PM
1612125-023	SVE-19-121216	12/12/2016 2:05 PM	12/12/2016 3:39 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1612125**
Date: **7/7/2017**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11A-121216
Lab ID: 1612125-001A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	3.26	7.74	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11A-121216
Lab ID: 1612125-001A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	0.850	2.93	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	1.80	6.49	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	0.720	2.89	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.390	1.69	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	2.46	8.55	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	0.610	2.15	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	0.630	1.08	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	20.0	136	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.870	3.28	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11A-121216
Lab ID: 1612125-001A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	96.3 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SYS-121216
Lab ID: 1612125-002A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	0.530	1.56	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	1.60	3.93	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	5.24	12.4	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	0.290	0.926	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	1.78	5.54	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SYS-121216
Lab ID: 1612125-002A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	0.370	1.81	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	0.210	0.833	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	0.440	2.18	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	5.14	18.5	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.590	2.56	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	1.58	5.49	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	0.350	1.23	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	0.210	0.912	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	0.620	1.07	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	42.4	288	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	0.630	1.86	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	1.64	6.18	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	0.240	1.29	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SYS-121216
Lab ID: 1612125-002A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.590	3.31	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	96.0 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-18-121216
Lab ID: 1612125-003A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.72	4.09	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-18-121216
Lab ID: 1612125-003A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.390	1.69	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	56.0	380	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.690	2.60	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-18-121216
Lab ID: 1612125-003A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	97.4 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-1-121216
Lab ID: 1612125-004A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.57	3.73	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-1-121216
Lab ID: 1612125-004A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	1.01	4.93	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.320	1.39	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	0.230	0.811	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	73.6	499	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.560	2.11	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-1-121216
Lab ID: 1612125-004A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.320	1.80	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	98.2 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-6-121216
Lab ID: 1612125-005A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.89	4.49	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-6-121216
Lab ID: 1612125-005A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	7.46	29.6	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.620	2.69	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	0.200	0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	220	1,490	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	1.13	4.26	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	3.35	18.0	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-6-121216
Lab ID: 1612125-005A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	101 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-17-121216
Lab ID: 1612125-006A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	1.02	2.51	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	2.66	6.32	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-17-121216
Lab ID: 1612125-006A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.470	2.04	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	9.60	65.1	0.300	2.03		EPA-TO-15	12/14/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.890	3.35	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-17-121216
Lab ID: 1612125-006A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	101 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13B-121216
Lab ID: 1612125-007A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	2.13	5.23	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.62	3.85	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13B-121216
Lab ID: 1612125-007A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	0.330	1.61	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	0.330	1.14	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.550	2.39	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	35.5	241	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.840	3.17	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	0.520	2.79	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13B-121216
Lab ID: 1612125-007A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	96.5 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-15-121216
Lab ID: 1612125-008A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	1.43	3.51	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.94	4.61	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-15-121216
Lab ID: 1612125-008A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	0.280	1.37	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	0.200	0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.330	1.43	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	55.0	373	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.530	2.00	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-15-121216
Lab ID: 1612125-008A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	96.7 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11B-121216
Lab ID: 1612125-009A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	1.49	3.54	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	0.500	3.35	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	0.210	1.32	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11B-121216
Lab ID: 1612125-009A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	4.30	21.0	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.400	1.74	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	0.270	0.952	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	21.9	149	4.80	32.6		EPA-TO-15	12/13/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.680	2.56	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	0.210	1.13	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-11B-121216
Lab ID: 1612125-009A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	97.7 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12B-121216
Lab ID: 1612125-010A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/14/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/14/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/14/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/14/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/14/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/14/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/14/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/14/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/14/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/14/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/14/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/14/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/14/2016	BC
Acetone	2.29	5.44	1.00	2.38		EPA-TO-15	12/14/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/14/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/14/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/14/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/14/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/14/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/14/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/14/2016	BC
Carbon tetrachloride	0.250	1.57	0.200	1.26		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12B-121216
Lab ID: 1612125-010A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/14/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/14/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/14/2016	BC
Chloroform	1.98	9.67	0.200	0.977		EPA-TO-15	12/14/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/14/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/14/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/14/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/14/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/14/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/14/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/14/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/14/2016	BC
m,p-Xylene	0.330	1.43	0.200	0.868		EPA-TO-15	12/14/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/14/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/14/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/14/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/14/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/14/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/14/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/14/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/14/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/14/2016	BC
Tetrachloroethene (PCE)	43.5	295	4.80	32.6		EPA-TO-15	12/14/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/14/2016	BC
Toluene	0.440	1.66	0.200	0.754		EPA-TO-15	12/14/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/14/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/14/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/14/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12B-121216
Lab ID: 1612125-010A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/14/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/14/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/14/2016	BC
Surr: 4-Bromofluorobenzene	99.6 %Rec	--	70-130	--		EPA-TO-15	12/14/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13A-121216
Lab ID: 1612125-011A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.02	4.80	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13A-121216
Lab ID: 1612125-011A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.590	2.88	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.380	1.65	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	21.4	145	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.730	2.75	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	0.430	2.31	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-13A-121216
Lab ID: 1612125-011A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	99.8 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-7-121216
Lab ID: 1612125-012A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.97	7.06	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-7-121216
Lab ID: 1612125-012A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.400	1.95	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	1.96	4.05	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	0.590	2.34	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.330	1.63	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.670	2.91	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	0.210	0.912	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	166	1,130	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	1.09	3.21	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.41	5.31	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	0.690	3.71	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-7-121216
Lab ID: 1612125-012A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.820	4.61	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	96.3 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-10-121216
Lab ID: 1612125-013A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	1.38	3.39	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	4.49	10.7	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	0.250	0.799	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-10-121216
Lab ID: 1612125-013A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.690	3.37	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	5.13	25.4	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	4.74	17.1	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.400	1.74	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	1.79	6.22	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	0.420	1.48	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	58.7	398	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.16	4.37	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-10-121216
Lab ID: 1612125-013A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	9.63	54.1	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	102 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-14-121216
Lab ID: 1612125-014A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	1.12	2.75	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	1.71	4.06	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-14-121216
Lab ID: 1612125-014A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.310	1.53	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.350	1.52	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	0.250	0.881	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	21.3	144	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.600	2.26	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-14-121216
Lab ID: 1612125-014A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	98.7 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-9-121216
Lab ID: 1612125-015A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	1.60	3.80	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-9-121216
Lab ID: 1612125-015A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.290	1.42	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.380	1.88	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.520	2.26	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	55.8	379	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.07	4.03	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-9-121216
Lab ID: 1612125-015A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	1.18	6.63	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	101 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12A-121216
Lab ID: 1612125-016A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	1.60	3.93	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.35	5.58	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	0.500	1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12A-121216
Lab ID: 1612125-016A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.280	1.37	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.300	1.48	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.560	2.43	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	32.0	217	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.880	3.32	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	0.290	1.56	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-12A-121216
Lab ID: 1612125-016A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	102 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-3-121216
Lab ID: 1612125-017A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	1.05	2.58	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.02	4.80	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-3-121216
Lab ID: 1612125-017A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	0.530	2.10	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.300	1.48	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.490	2.13	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	49.8	338	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.800	3.01	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	0.640	3.44	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-3-121216
Lab ID: 1612125-017A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	97.6 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-5-121216
Lab ID: 1612125-018A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.23	5.30	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-5-121216
Lab ID: 1612125-018A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.300	1.48	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.560	2.43	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	106	716	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.08	4.07	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	0.310	1.67	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-5-121216
Lab ID: 1612125-018A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	97.5 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-2-121216
Lab ID: 1612125-019A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	1.83	4.35	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-2-121216
Lab ID: 1612125-019A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.310	1.53	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.440	1.91	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	55.2	374	4.80	32.6		EPA-TO-15	12/15/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.750	2.83	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-2-121216
Lab ID: 1612125-019A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	99.2 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-16-121216
Lab ID: 1612125-020A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	3.27	7.77	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-16-121216
Lab ID: 1612125-020A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.250	1.22	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	0.860	3.41	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	0.210	0.723	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.300	1.48	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.390	1.69	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	86.6	587	4.80	32.6		EPA-TO-15	12/16/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.590	2.22	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	1.27	6.83	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-16-121216
Lab ID: 1612125-020A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	100 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-4-121216
Lab ID: 1612125-021A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.07	4.92	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-4-121216
Lab ID: 1612125-021A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.200	0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.310	1.53	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.580	2.52	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	0.200	0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	49.0	332	4.80	32.6		EPA-TO-15	12/16/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.08	4.07	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-4-121216
Lab ID: 1612125-021A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	102 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-8-121216
Lab ID: 1612125-022A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	2.44	5.80	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-8-121216
Lab ID: 1612125-022A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	0.280	1.37	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.390	1.93	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.590	2.56	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	104	703	4.80	32.6		EPA-TO-15	12/16/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	1.28	4.82	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-8-121216
Lab ID: 1612125-022A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	0.730	4.10	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	98.4 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Client: PES Environmental, Inc.
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-19-121216
Lab ID: 1612125-023A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	12/16/2016	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	12/16/2016	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	12/16/2016	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	12/16/2016	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	12/16/2016	BC
1,2,4-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	12/16/2016	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	12/16/2016	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	12/16/2016	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	12/16/2016	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	12/16/2016	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	12/16/2016	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	12/16/2016	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	12/16/2016	BC
Acetone	1.70	4.04	1.00	2.38		EPA-TO-15	12/16/2016	BC
Acrolein	0.690	1.58	0.500	1.15		EPA-TO-15	12/16/2016	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	12/16/2016	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	12/16/2016	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	12/16/2016	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	12/16/2016	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	12/16/2016	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	12/16/2016	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-19-121216
Lab ID: 1612125-023A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	12/16/2016	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	12/16/2016	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	12/16/2016	BC
Chloroform	<0.200	<0.977	0.200	0.977		EPA-TO-15	12/16/2016	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	12/16/2016	BC
cis-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	12/16/2016	BC
Dichlorodifluoromethane (CFC-12)	0.310	1.53	0.300	1.48		EPA-TO-15	12/16/2016	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	12/16/2016	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	12/16/2016	BC
Ethylbenzene	<0.300	<1.30	0.300	1.30		EPA-TO-15	12/16/2016	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	12/16/2016	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	12/16/2016	BC
m,p-Xylene	0.490	2.13	0.200	0.868		EPA-TO-15	12/16/2016	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	12/16/2016	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	12/16/2016	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	12/16/2016	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	12/16/2016	BC
o-Xylene	<0.200	<0.868	0.200	0.868		EPA-TO-15	12/16/2016	BC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	12/16/2016	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	12/16/2016	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	12/16/2016	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	12/16/2016	BC
Tetrachloroethene (PCE)	21.6	147	4.80	32.6		EPA-TO-15	12/16/2016	BC
Tetrahydrofuran	<0.500	<1.47	0.500	1.47		EPA-TO-15	12/16/2016	BC
Toluene	0.830	3.13	0.200	0.754		EPA-TO-15	12/16/2016	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	12/16/2016	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	12/16/2016	BC
Trichloroethene (TCE)	<0.200	<1.07	0.200	1.07		EPA-TO-15	12/16/2016	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1612125
Project: MVSC

Client Sample ID: SVE-19-121216
Lab ID: 1612125-023A
Sample Type: Summa Canister

Date Sampled: 12/12/2016
Date Received: 12/12/2016

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Trichlorofluoromethane (CFC-11)	<0.300	<1.69	0.300	1.69		EPA-TO-15	12/16/2016	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	12/16/2016	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	12/16/2016	BC
Surr: 4-Bromofluorobenzene	98.7 %Rec	--	70-130	--		EPA-TO-15	12/16/2016	BC

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33445** SampType: **LCS** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634576**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	178	1.00	180.0	0	99.2	70	130				
Propylene	4.98	0.500	5.000	0	99.6	70	130				
Dichlorodifluoromethane (CFC-12)	4.13	0.300	5.000	0	82.6	70	130				
Chloromethane	4.78	0.500	5.000	0	95.6	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.75	0.500	5.000	0	95.0	70	130				
Vinyl chloride	4.75	0.200	5.000	0	95.0	70	130				
1,3-Butadiene	4.91	0.500	5.000	0	98.2	70	130				
Bromomethane	4.85	0.500	5.000	0	97.0	70	130				
Trichlorofluoromethane (CFC-11)	4.86	0.300	5.000	0	97.2	70	130				
Chloroethane	4.90	0.500	5.000	0	98.0	70	130				
Acrolein	4.96	0.500	5.000	0	99.2	70	130				
1,1-Dichloroethene (DCE)	4.81	0.200	5.000	0	96.2	70	130				
Acetone	4.86	1.00	5.000	0	97.2	70	130				
Isopropyl Alcohol	4.99	1.00	5.000	0	99.8	70	130				
Methylene chloride	4.84	1.50	5.000	0	96.8	70	130				
Carbon disulfide	4.91	1.50	5.000	0	98.2	70	130				
trans-1,2-Dichloroethene	5.01	0.200	5.000	0	100	70	130				
Methyl tert-butyl ether (MTBE)	4.94	0.200	5.000	0	98.8	70	130				
n-Hexane	4.98	0.200	5.000	0	99.6	70	130				
1,1-Dichloroethane	4.93	0.200	5.000	0	98.6	70	130				
Vinyl acetate	5.00	1.00	5.000	0	100	70	130				
cis-1,2-Dichloroethene	4.74	0.200	5.000	0	94.8	70	130				
(MEK) 2-Butanone	5.08	0.500	5.000	0	102	70	130				
Ethyl acetate	4.99	1.00	5.000	0	99.8	70	130				
Chloroform	4.86	0.200	5.000	0	97.2	70	130				
Tetrahydrofuran	5.05	0.500	5.000	0	101	70	130				
1,1,1-Trichloroethane	4.79	0.200	5.000	0	95.8	70	130				
Carbon tetrachloride	4.82	0.200	5.000	0	96.4	70	130				
1,2-Dichloroethane	4.87	0.200	5.000	0	97.4	70	130				
Benzene	5.01	0.200	5.000	0	100	70	130				
Cyclohexane	4.96	0.200	5.000	0	99.2	70	130				

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33445** SampType: **LCS** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634576**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichloroethene (TCE)	4.88	0.200	5.000	0	97.6	70	130				
1,2-Dichloropropane	4.85	0.500	5.000	0	97.0	70	130				
Methyl methacrylate	5.03	0.300	5.000	0	101	70	130				
Dichlorobromomethane	4.87	0.300	5.000	0	97.4	70	130				
1,4-Dioxane	5.14	1.00	5.000	0	103	70	130				
cis-1,3-dichloropropene	5.12	0.500	5.000	0	102	70	130				
Toluene	4.85	0.200	5.000	0	97.0	70	130				
trans-1,3-dichloropropene	5.13	0.500	5.000	0	103	70	130				
1,1,2-Trichloroethane (TCA)	4.84	0.500	5.000	0	96.8	70	130				
Tetrachloroethene (PCE)	4.94	0.300	5.000	0	98.8	70	130				
Dibromochloromethane	4.79	0.500	5.000	0	95.8	70	130				
1,2-Dibromoethane (EDB)	4.91	0.200	5.000	0	98.2	70	130				
Chlorobenzene	4.69	0.200	5.000	0	93.8	70	130				
Ethylbenzene	4.86	0.300	5.000	0	97.2	70	130				
m,p-Xylene	9.49	0.200	10.00	0	94.9	70	130				
o-Xylene	4.73	0.200	5.000	0	94.6	70	130				
Styrene	4.79	0.300	5.000	0	95.8	70	130				
Bromoform	4.66	0.200	5.000	0	93.2	70	130				
1,1,2,2-Tetrachloroethane	4.69	0.300	5.000	0	93.8	70	130				
1,3,5-Trimethylbenzene	5.36	0.300	5.000	0	107	70	130				
1,2,4-Trimethylbenzene	5.29	0.300	5.000	0	106	70	130				
Benzyl chloride	5.27	0.500	5.000	0	105	70	130				
4-Ethyltoluene	4.87	0.300	5.000	0	97.4	70	130				
1,3-Dichlorobenzene	5.75	0.300	5.000	0	115	70	130				
1,4-Dichlorobenzene	5.73	0.300	5.000	0	115	70	130				
1,2-Dichlorobenzene	5.68	0.500	5.000	0	114	70	130				
1,2,4-Trichlorobenzene	5.80	0.300	5.000	0	116	70	130				
Hexachlorobutadiene	5.88	1.00	5.000	0	118	70	130				
Naphthalene	6.00	0.300	5.000	0	120	70	130				
2-Hexanone	5.04	1.00	5.000	0	101	70	130				
4-Methyl-2-pentanone (MIBK)	4.94	1.00	5.000	0	98.8	70	130				

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33445** SampType: **LCS** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634576**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
CFC-113	4.64	0.500	5.000	0	92.8	70	130				
Heptane	4.92	0.500	5.000	0	98.4	70	130				
Surr: 4-Bromofluorobenzene	10.0		10.00		101	70	130				

Sample ID **LCSD-R33445** SampType: **LCSD** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW02** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634577**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	180	1.00	180.0	0	100	70	130	178.5	0.948	30	
Propylene	5.50	0.500	5.000	0	110	70	130	4.980	9.92	30	
Dichlorodifluoromethane (CFC-12)	3.72	0.300	5.000	0	74.4	70	130	4.130	10.4	30	
Chloromethane	5.34	0.500	5.000	0	107	70	130	4.780	11.1	30	
Dichlorotetrafluoroethane (CFC-114)	4.91	0.500	5.000	0	98.2	70	130	4.750	3.31	30	
Vinyl chloride	5.48	0.200	5.000	0	110	70	130	4.750	14.3	30	
1,3-Butadiene	5.42	0.500	5.000	0	108	70	130	4.910	9.87	30	
Bromomethane	4.97	0.500	5.000	0	99.4	70	130	4.850	2.44	30	
Trichlorofluoromethane (CFC-11)	4.72	0.300	5.000	0	94.4	70	130	4.860	2.92	30	
Chloroethane	5.39	0.500	5.000	0	108	70	130	4.900	9.52	30	
Acrolein	5.53	0.500	5.000	0	111	70	130	4.960	10.9	30	
1,1-Dichloroethene (DCE)	5.04	0.200	5.000	0	101	70	130	4.810	4.67	30	
Acetone	5.18	1.00	5.000	0	104	70	130	4.860	6.37	30	
Isopropyl Alcohol	5.46	1.00	5.000	0	109	70	130	4.990	9.00	30	
Methylene chloride	5.16	1.50	5.000	0	103	70	130	4.840	6.40	30	
Carbon disulfide	5.19	1.50	5.000	0	104	70	130	4.910	5.54	30	
trans-1,2-Dichloroethene	5.12	0.200	5.000	0	102	70	130	5.010	2.17	30	
Methyl tert-butyl ether (MTBE)	5.35	0.200	5.000	0	107	70	130	4.940	7.97	30	
n-Hexane	5.36	0.200	5.000	0	107	70	130	4.980	7.35	30	
1,1-Dichloroethane	5.21	0.200	5.000	0	104	70	130	4.930	5.52	30	
Vinyl acetate	5.57	1.00	5.000	0	111	70	130	5.000	10.8	30	
cis-1,2-Dichloroethene	5.12	0.200	5.000	0	102	70	130	4.740	7.71	30	

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCSD-R33445** SampType: **LCSD** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW02** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634577**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
(MEK) 2-Butanone	5.56	0.500	5.000	0	111	70	130	5.080	9.02	30	
Ethyl acetate	5.45	1.00	5.000	0	109	70	130	4.990	8.81	30	
Chloroform	4.89	0.200	5.000	0	97.8	70	130	4.860	0.615	30	
Tetrahydrofuran	5.72	0.500	5.000	0	114	70	130	5.050	12.4	30	
1,1,1-Trichloroethane	4.79	0.200	5.000	0	95.8	70	130	4.790	0	30	
Carbon tetrachloride	4.76	0.200	5.000	0	95.2	70	130	4.820	1.25	30	
1,2-Dichloroethane	5.00	0.200	5.000	0	100	70	130	4.870	2.63	30	
Benzene	5.33	0.200	5.000	0	107	70	130	5.010	6.19	30	
Cyclohexane	5.29	0.200	5.000	0	106	70	130	4.960	6.44	30	
Trichloroethene (TCE)	4.96	0.200	5.000	0	99.2	70	130	4.880	1.63	30	
1,2-Dichloropropane	5.16	0.500	5.000	0	103	70	130	4.850	6.19	30	
Methyl methacrylate	5.30	0.300	5.000	0	106	70	130	5.030	5.23	30	
Dichlorobromomethane	4.72	0.300	5.000	0	94.4	70	130	4.870	3.13	30	
1,4-Dioxane	5.19	1.00	5.000	0	104	70	130	5.140	0.968	30	
cis-1,3-dichloropropene	5.20	0.500	5.000	0	104	70	130	5.120	1.55	30	
Toluene	4.93	0.200	5.000	0	98.6	70	130	4.850	1.64	30	
trans-1,3-dichloropropene	5.19	0.500	5.000	0	104	70	130	5.130	1.16	30	
1,1,2-Trichloroethane (TCA)	4.86	0.500	5.000	0	97.2	70	130	4.840	0.412	30	
Tetrachloroethene (PCE)	4.64	0.300	5.000	0	92.8	70	130	4.940	6.26	30	
Dibromochloromethane	4.53	0.500	5.000	0	90.6	70	130	4.790	5.58	30	
1,2-Dibromoethane (EDB)	4.82	0.200	5.000	0	96.4	70	130	4.910	1.85	30	
Chlorobenzene	4.81	0.200	5.000	0	96.2	70	130	4.690	2.53	30	
Ethylbenzene	5.01	0.300	5.000	0	100	70	130	4.860	3.04	30	
m,p-Xylene	9.89	0.200	10.00	0	98.9	70	130	9.490	4.13	30	
o-Xylene	4.89	0.200	5.000	0	97.8	70	130	4.730	3.33	30	
Styrene	5.15	0.300	5.000	0	103	70	130	4.790	7.24	30	
Bromoform	4.62	0.200	5.000	0	92.4	70	130	4.660	0.862	30	
1,1,2,2-Tetrachloroethane	4.95	0.300	5.000	0	99.0	70	130	4.690	5.39	30	
1,3,5-Trimethylbenzene	4.64	0.300	5.000	0	92.8	70	130	5.360	14.4	30	
1,2,4-Trimethylbenzene	4.68	0.300	5.000	0	93.6	70	130	5.290	12.2	30	
Benzyl chloride	4.86	0.500	5.000	0	97.2	70	130	5.270	8.09	30	

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCSD-R33445** SampType: **LCSD** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **LCSW02** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634577**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-Ethyltoluene	4.92	0.300	5.000	0	98.4	70	130	4.870	1.02	30	
1,3-Dichlorobenzene	4.56	0.300	5.000	0	91.2	70	130	5.750	23.1	30	
1,4-Dichlorobenzene	4.62	0.300	5.000	0	92.4	70	130	5.730	21.4	30	
1,2-Dichlorobenzene	4.60	0.500	5.000	0	92.0	70	130	5.680	21.0	30	
1,2,4-Trichlorobenzene	4.51	0.300	5.000	0	90.2	70	130	5.800	25.0	30	
Hexachlorobutadiene	4.62	1.00	5.000	0	92.4	70	130	5.880	24.0	30	
Naphthalene	4.58	0.300	5.000	0	91.6	70	130	6.000	26.8	30	
2-Hexanone	5.68	1.00	5.000	0	114	70	130	5.040	11.9	30	
4-Methyl-2-pentanone (MIBK)	5.48	1.00	5.000	0	110	70	130	4.940	10.4	30	
CFC-113	4.72	0.500	5.000	0	94.4	70	130	4.640	1.71	30	
Heptane	5.31	0.500	5.000	0	106	70	130	4.920	7.62	30	
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130		0		

Sample ID **MB-R33445** SampType: **MBLK** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **MBLKW** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634570**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	ND	0									
2-Methyl-2-Propanol	ND	0									
Allyl chloride	ND	0									
Butane	0.0800	0									
Cumene	ND	0.300									
Gasoline Range Organics	ND	1.00									
Isooctane	ND	0									
n-Nonane	ND	0									
n-Propylbenzene	ND	0.300									
Pentane	ND	0.500									
Vinyl bromide	ND	0									
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33445**	SampType: **MBLK**		Units: **ppbv**	Prep Date: **12/15/2016**		RunNo: **33445**	
Client ID: **MBLKW**	Batch ID: **R33445**			Analysis Date: **12/15/2016**		SeqNo: **634570**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Ethanol	ND	1.00									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
n-Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**MB-R33445**	SampType:	**MBLK**	Units:	**ppbv**	Prep Date:	**12/15/2016**	RunNo:	**33445**
Client ID:	**MBLKW**	Batch ID:	**R33445**			Analysis Date:	**12/15/2016**	SeqNo:	**634570**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33445** SampType: **MBLK** Units: **ppbv** Prep Date: **12/15/2016** RunNo: **33445**
Client ID: **MBLKW** Batch ID: **R33445** Analysis Date: **12/15/2016** SeqNo: **634570**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.51		10.00		95.1	70	130				

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33388** SampType: **LCS** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633490**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	4.59	0.500	5.000	0	91.8	70	130				
Dichlorodifluoromethane (CFC-12)	3.57	0.300	5.000	0	71.4	70	130				
Chloromethane	4.33	0.500	5.000	0	86.6	70	130				
Dichlorotetrafluoroethane (CFC-114)	3.88	0.500	5.000	0	77.6	70	130				
Vinyl chloride	4.02	0.200	5.000	0	80.4	70	130				
1,3-Butadiene	4.13	0.500	5.000	0	82.6	70	130				
Bromomethane	3.91	0.500	5.000	0	78.2	70	130				
Trichlorofluoromethane (CFC-11)	3.77	0.300	5.000	0	75.4	70	130				
Chloroethane	4.09	0.500	5.000	0	81.8	70	130				
Acrolein	4.43	0.500	5.000	0	88.6	70	130				
1,1-Dichloroethene (DCE)	4.00	0.200	5.000	0	80.0	70	130				
Acetone	4.36	1.00	5.000	0	87.2	70	130				
Isopropyl Alcohol	4.33	1.00	5.000	0	86.6	70	130				
Methylene chloride	3.90	1.50	5.000	0	78.0	70	130				
Carbon disulfide	3.94	1.50	5.000	0	78.8	70	130				
trans-1,2-Dichloroethene	3.85	0.200	5.000	0	77.0	70	130				
Methyl tert-butyl ether (MTBE)	4.39	0.200	5.000	0	87.8	70	130				
n-Hexane	4.18	0.200	5.000	0	83.6	70	130				
1,1-Dichloroethane	4.03	0.200	5.000	0	80.6	70	130				
Vinyl acetate	4.18	1.00	5.000	0	83.6	70	130				
cis-1,2-Dichloroethene	3.91	0.200	5.000	0	78.2	70	130				
(MEK) 2-Butanone	4.59	0.500	5.000	0	91.8	70	130				
Ethyl acetate	4.80	1.00	5.000	0	96.0	70	130				
Chloroform	3.74	0.200	5.000	0	74.8	70	130				
Tetrahydrofuran	4.67	0.500	5.000	0	93.4	70	130				
1,1,1-Trichloroethane	3.75	0.200	5.000	0	75.0	70	130				
Carbon tetrachloride	3.95	0.200	5.000	0	79.0	70	130				
1,2-Dichloroethane	3.57	0.200	5.000	0	71.4	70	130				
Benzene	4.11	0.200	5.000	0	82.2	70	130				
Cyclohexane	4.38	0.200	5.000	0	87.6	70	130				
Trichloroethene (TCE)	4.10	0.200	5.000	0	82.0	70	130				

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33388** SampType: **LCS** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633490**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	4.37	0.500	5.000	0	87.4	70	130				
Methyl methacrylate	4.61	0.300	5.000	0	92.2	70	130				
Dichlorobromomethane	3.97	0.300	5.000	0	79.4	70	130				
1,4-Dioxane	4.40	1.00	5.000	0	88.0	70	130				
cis-1,3-dichloropropene	4.15	0.500	5.000	0	83.0	70	130				
Toluene	4.26	0.200	5.000	0	85.2	70	130				
trans-1,3-dichloropropene	4.23	0.500	5.000	0	84.6	70	130				
1,1,2-Trichloroethane (TCA)	4.30	0.500	5.000	0	86.0	70	130				
Tetrachloroethene (PCE)	5.34	0.300	5.000	0	107	70	130				
Dibromochloromethane	4.59	0.500	5.000	0	91.8	70	130				
1,2-Dibromoethane (EDB)	4.38	0.200	5.000	0	87.6	70	130				
Chlorobenzene	4.31	0.200	5.000	0	86.2	70	130				
Ethylbenzene	4.23	0.300	5.000	0	84.6	70	130				
m,p-Xylene	8.41	0.200	10.00	0	84.1	70	130				
o-Xylene	4.31	0.200	5.000	0	86.2	70	130				
Styrene	4.61	0.300	5.000	0	92.2	70	130				
Bromoform	4.95	0.200	5.000	0	99.0	70	130				
1,1,2,2-Tetrachloroethane	4.17	0.300	5.000	0	83.4	70	130				
1,3,5-Trimethylbenzene	4.17	0.300	5.000	0	83.4	70	130				
1,2,4-Trimethylbenzene	4.09	0.300	5.000	0	81.8	70	130				
Benzyl chloride	3.88	0.500	5.000	0	77.6	70	130				
4-Ethyltoluene	4.49	0.300	5.000	0	89.8	70	130				
1,3-Dichlorobenzene	4.69	0.300	5.000	0	93.8	70	130				
1,4-Dichlorobenzene	4.64	0.300	5.000	0	92.8	70	130				
1,2-Dichlorobenzene	4.86	0.500	5.000	0	97.2	70	130				
1,2,4-Trichlorobenzene	5.25	0.300	5.000	0	105	70	130				
Hexachlorobutadiene	4.65	1.00	5.000	0	93.0	70	130				
Naphthalene	4.71	0.300	5.000	0	94.2	70	130				
2-Hexanone	7.17	1.00	5.000	0	143	70	130				S
4-Methyl-2-pentanone (MIBK)	4.55	1.00	5.000	0	91.0	70	130				
CFC-113	4.03	0.500	5.000	0	80.6	70	130				

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33388** SampType: **LCS** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633490**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.09	0.500	5.000	0	81.8	70	130				
Surr: 4-Bromofluorobenzene	9.59		10.00		95.9	70	130				

NOTES:
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **LCSD-R33388** SampType: **LCSD** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW02** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633489**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	4.52	0.500	5.000	0	90.4	70	130	4.590	1.54	30	
Dichlorodifluoromethane (CFC-12)	3.66	0.300	5.000	0	73.2	70	130	3.570	2.49	30	
Chloromethane	4.30	0.500	5.000	0	86.0	70	130	4.330	0.695	30	
Dichlorotetrafluoroethane (CFC-114)	3.94	0.500	5.000	0	78.8	70	130	3.880	1.53	30	
Vinyl chloride	4.13	0.200	5.000	0	82.6	70	130	4.020	2.70	30	
1,3-Butadiene	4.14	0.500	5.000	0	82.8	70	130	4.130	0.242	30	
Bromomethane	4.05	0.500	5.000	0	81.0	70	130	3.910	3.52	30	
Trichlorofluoromethane (CFC-11)	3.83	0.300	5.000	0	76.6	70	130	3.770	1.58	30	
Chloroethane	4.08	0.500	5.000	0	81.6	70	130	4.090	0.245	30	
Acrolein	4.26	0.500	5.000	0	85.2	70	130	4.430	3.91	30	
1,1-Dichloroethene (DCE)	4.02	0.200	5.000	0	80.4	70	130	4.000	0.499	30	
Acetone	4.37	1.00	5.000	0	87.4	70	130	4.360	0.229	30	
Isopropyl Alcohol	4.36	1.00	5.000	0	87.2	70	130	4.330	0.690	30	
Methylene chloride	3.83	1.50	5.000	0	76.6	70	130	3.900	1.81	30	
Carbon disulfide	3.98	1.50	5.000	0	79.6	70	130	3.940	1.01	30	
trans-1,2-Dichloroethene	3.92	0.200	5.000	0	78.4	70	130	3.850	1.80	30	
Methyl tert-butyl ether (MTBE)	4.39	0.200	5.000	0	87.8	70	130	4.390	0	30	
n-Hexane	4.21	0.200	5.000	0	84.2	70	130	4.180	0.715	30	
1,1-Dichloroethane	4.04	0.200	5.000	0	80.8	70	130	4.030	0.248	30	
Vinyl acetate	4.42	1.00	5.000	0	88.4	70	130	4.180	5.58	30	
cis-1,2-Dichloroethene	3.93	0.200	5.000	0	78.6	70	130	3.910	0.510	30	
(MEK) 2-Butanone	4.44	0.500	5.000	0	88.8	70	130	4.590	3.32	30	

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCSD-R33388** SampType: **LCSD** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW02** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633489**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	4.81	1.00	5.000	0	96.2	70	130	4.800	0.208	30	
Chloroform	3.75	0.200	5.000	0	75.0	70	130	3.740	0.267	30	
Tetrahydrofuran	4.93	0.500	5.000	0	98.6	70	130	4.670	5.42	30	
1,1,1-Trichloroethane	3.75	0.200	5.000	0	75.0	70	130	3.750	0	30	
Carbon tetrachloride	4.03	0.200	5.000	0	80.6	70	130	3.950	2.01	30	
1,2-Dichloroethane	3.60	0.200	5.000	0	72.0	70	130	3.570	0.837	30	
Benzene	4.20	0.200	5.000	0	84.0	70	130	4.110	2.17	30	
Cyclohexane	4.49	0.200	5.000	0	89.8	70	130	4.380	2.48	30	
Trichloroethene (TCE)	4.28	0.200	5.000	0	85.6	70	130	4.100	4.30	30	
1,2-Dichloropropane	4.47	0.500	5.000	0	89.4	70	130	4.370	2.26	30	
Methyl methacrylate	4.76	0.300	5.000	0	95.2	70	130	4.610	3.20	30	
Dichlorobromomethane	4.06	0.300	5.000	0	81.2	70	130	3.970	2.24	30	
1,4-Dioxane	4.62	1.00	5.000	0	92.4	70	130	4.400	4.88	30	
cis-1,3-dichloropropene	4.16	0.500	5.000	0	83.2	70	130	4.150	0.241	30	
Toluene	4.29	0.200	5.000	0	85.8	70	130	4.260	0.702	30	
trans-1,3-dichloropropene	4.29	0.500	5.000	0	85.8	70	130	4.230	1.41	30	
1,1,2-Trichloroethane (TCA)	4.29	0.500	5.000	0	85.8	70	130	4.300	0.233	30	
Tetrachloroethene (PCE)	5.20	0.300	5.000	0	104	70	130	5.340	2.66	30	
Dibromochloromethane	4.64	0.500	5.000	0	92.8	70	130	4.590	1.08	30	
1,2-Dibromoethane (EDB)	4.41	0.200	5.000	0	88.2	70	130	4.380	0.683	30	
Chlorobenzene	4.31	0.200	5.000	0	86.2	70	130	4.310	0	30	
Ethylbenzene	4.39	0.300	5.000	0	87.8	70	130	4.230	3.71	30	
m,p-Xylene	8.65	0.200	10.00	0	86.5	70	130	8.410	2.81	30	
o-Xylene	4.34	0.200	5.000	0	86.8	70	130	4.310	0.694	30	
Styrene	4.48	0.300	5.000	0	89.6	70	130	4.610	2.86	30	
Bromoform	4.95	0.200	5.000	0	99.0	70	130	4.950	0	30	
1,1,2,2-Tetrachloroethane	4.26	0.300	5.000	0	85.2	70	130	4.170	2.14	30	
1,3,5-Trimethylbenzene	4.29	0.300	5.000	0	85.8	70	130	4.170	2.84	30	
1,2,4-Trimethylbenzene	4.22	0.300	5.000	0	84.4	70	130	4.090	3.13	30	
Benzyl chloride	3.99	0.500	5.000	0	79.8	70	130	3.880	2.80	30	
4-Ethyltoluene	4.54	0.300	5.000	0	90.8	70	130	4.490	1.11	30	

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCSD-R33388** SampType: **LCSD** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **LCSW02** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633489**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	4.73	0.300	5.000	0	94.6	70	130	4.690	0.849	30	
1,4-Dichlorobenzene	4.80	0.300	5.000	0	96.0	70	130	4.640	3.39	30	
1,2-Dichlorobenzene	5.00	0.500	5.000	0	100	70	130	4.860	2.84	30	
1,2,4-Trichlorobenzene	5.65	0.300	5.000	0	113	70	130	5.250	7.34	30	
Hexachlorobutadiene	4.78	1.00	5.000	0	95.6	70	130	4.650	2.76	30	
Naphthalene	5.22	0.300	5.000	0	104	70	130	4.710	10.3	30	
2-Hexanone	7.33	1.00	5.000	0	147	70	130	7.170	2.21	30	S
4-Methyl-2-pentanone (MIBK)	4.48	1.00	5.000	0	89.6	70	130	4.550	1.55	30	
CFC-113	4.06	0.500	5.000	0	81.2	70	130	4.030	0.742	30	
Heptane	4.17	0.500	5.000	0	83.4	70	130	4.090	1.94	30	
Surr: 4-Bromofluorobenzene	9.82		10.00		98.2	70	130		0		

NOTES:
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-R33388** SampType: **MBLK** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **MBLKW** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633491**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
2-Chlorotoluene	ND	0									
2-Methyl-2-Propanol	ND	0									
Allyl chloride	ND	0									
Butane	0.0700	0									
Cumene	ND	0.300									
Gasoline Range Organics	ND	1.00									
Isooctane	ND	0									
n-Nonane	ND	0									
n-Propylbenzene	ND	0.300									
Pentane	ND	0.500									
Vinyl bromide	ND	0									
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33388** SampType: **MBLK** Units: **ppbv** Prep Date: **12/13/2016** RunNo: **33388**
Client ID: **MBLKW** Batch ID: **R33388** Analysis Date: **12/13/2016** SeqNo: **633491**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Ethanol	ND	1.00									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
n-Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33388**	SampType: **MBLK**	Units: **ppbv**	Prep Date: **12/13/2016**	RunNo: **33388**	
Client ID: **MBLKW**	Batch ID: **R33388**		Analysis Date: **12/13/2016**	SeqNo: **633491**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									

Work Order: 1612125
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**MB-R33388**	SampType:	**MBLK**		Units:	**ppbv**	Prep Date:	**12/13/2016**	RunNo:	**33388**	
Client ID:	**MBLKW**	Batch ID:	**R33388**				Analysis Date:	**12/13/2016**	SeqNo:	**633491**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	9.58		10.00		95.8	70	130				

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1612125**
Logged by:	**Erica Silva**	Date Received:	**12/12/2016 3:39:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air samples		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified:		Date	
By Whom:		Via:	☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding:			
Client Instructions:			

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1612125

Date: 12-12-16 Page: 1 of: 5

Client: PES Environmental, Inc.

Address: 1215 4th AVE STE 1350

City, State, Zip: Seattle, WA 98161

Telephone: 206-529-3990 Fax: 206-529-3985

Project Name: MVSC

Project No: 1358.001.01.007 Collected by: K. Spitzsteadt

Location: Normandy Park, WA

Reports To (PM): Matt Dahl

Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1		4685		SG	Grab	1L	Summa	10 mTorr							
2	SVE-11A-121216	4686	12/12/16 1420	SG	Grab	1L	Summa				27	4	TO-15	12/12	-6
3	SVS-121216	4687	12-12-16 1505	SG	Grab	1L	Summa				22	2	TO-15	12/12	-2
4	SVE-18-121216	4688	12-12-16 1400	SG	Grab	1L	Summa				30	4	TO-15	12/12	-4
5	SVE-1-121216	4689	12-12-16 1450	SG	Grab	1L	Summa				30	4	TO-15	12/12	-4

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	12-12-16/1539	x	12/12/16 1539
x		x	

TAT --> (STD) Rush (specify)

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 161212S

Date: 12/12/16 Page: 2 of: 5

Client: PES Environmental, Inc.

Address:

City, State, Zip:

Telephone: Fax:

Project Name: MVSC

Project No: 1358.001.01.007 Collected by: K. Springstead

Location: Normandy Park, WA

Reports To (PM): Matt Dahl

Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SVE-6-121216	4690	12/12/16 1345	SG	Grab	1L	Summa	10 mTorr			30	4	TO-15	12/12	-4
2	SVE-17-121216	4691	12/12/16 1355		Grab	1L	Summa				30	4		12/12	-4
3	SVE-13B-121216	4692	12/12/16 1435		Grab	1L	Summa				30	4		12/12	-4
4	SVE-15-121216	4693	12/12/16 1500		Grab	1L	Summa				30	4		12/12	-4
5	SVE-11B-121216	4694	12/12/16 1425		Grab	1L	Summa				30	4		12/12	-4

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	12-12-16/1540	x	12/12/16 1540
x		x	

TAT --> (STD) Rush (specify)

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 161212S

Date: 12-12-16 Page: 3 of: 5

Client: PES Environmental, Inc.

Address:

City, State, Zip:

Telephone: Fax:

Project Name: MVSC

Project No: 1358.001.01.007 Collected by: K. Springstead

Location: Normandy Park, WA

Reports To (PM): Matt Dahl

Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SVE-12B-121216	4680	12/12/16 1425	SG	Grab	1L	Summa	10 mTorr			30	4	TO-15	12/12	-4
2	SVE-13A-121216	4681	12/12/16 1440	"	Grab	1L	Summa				28	4	"	12/12	-4
3	SVE-7-121216	4682	12/12/16 1340	"	Grab	1L	Summa				30	4	"	12/12	-4
4	SVE-10-121216	4683	12/12/16 1335	"	Grab	1L	Summa				22	4	"	12/12	-4
5	SVE-14-121216	4684	12/12/16 1445	"	Grab	1L	Summa				30	4	"	12/12	-4

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x [signature]	12-12-16/1540	x [signature]	12/12/16 1540
x		x	

TAT --> (STD) Rush (specify)

MEMORANDUM

TO: Project File **DATE:** July 12, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: December 12, 2016 SVE Wells and Stack Air Samples

LAB: Fremont Analytical Service Request No. 1612125

Twenty-two (22) soil vapor extraction (SVE) well samples and one (1) SVE system stack sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on December 12, 2016. The air samples were analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1612125 (Rpt_1612125_MVSC_Final_v2.pdf on July 7, 2017).

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report. Analytical batch identifications were not reported on the Form 1s (sample results). Samples analyzed on 12/14/2016 and 12/16/2016 are associated with analytical batch identifications R33388 and R33445, respectively.

Sample Collection and Preservation

The laboratory supplied Summa canisters (1 Liter) for the air samples. The samples were hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The samples were collected, handled, and delivered in an appropriate

manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

Analysis for VOCs by EPA Method TO-15 were performed within two and four days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in Summa canisters. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate Analyses

Laboratory duplicates were not performed. Refer to laboratory control sample and laboratory control sample duplicate results for precision data.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air samples, method blanks, and laboratory control samples were within the laboratory surrogate control limits of 70 - 130% R. No data qualifications were warranted.

Laboratory Control Samples

Laboratory control sample and laboratory control sample duplicate (LCS/LCSD) were performed along with each analytical batch (Batch IDs: R33445 and R33388). The LCS/LCSD recovery results for all control compounds met the % R and RPD acceptance criteria (% R of 70 -130% and relative percent difference (RPD) of 30%) with one exception:

LCS/LCSD compound 2-hexanone (Batch ID R33388) was recovered above acceptance criteria. No action was necessary since 2-hexanone was not detected in the associated samples (samples analyzed on 12/14/16).

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

PES, after receipt of May 2017 and revised April 2017 sampling results, reviewed historical results, requested that Fremont review, and confirm historical tetrachloroethene (PCE) results. Fremont identified a reporting issue related to an external correction factor on samples SVE-1-121216, SVE-6-121216, SVE-11A-121216, SVE-11B-121216, SVE-12B-121216, SVE-13B-121216, SVE-15-121216, SVE-18-121216 PCE results for December 2016 data. The initial analytical runs for these samples were at the limit or exceeded the instrument calibration range, and were reanalyzed using a smaller injection volume. Fremont indicated that the instrument outputs were correct and in calibration range, however the analyst incorrectly applied the external correction factors to these samples. Fremont reissued the report to reflect the corrected results and will report any other correction factor discrepancies during ongoing review of historical data.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

ANALYTICAL REPORT

December 27, 2016

PES Environmental, Inc.- WA

Sample Delivery Group:	L879400
Samples Received:	12/16/2016
Project Number:	1358.001.01
Description:	MVSC
Site:	MVSC
Report To:	Matt Dahl 1215 Fourth Ave., Suite 1350 Seattle, WA 98161

Entire Report Reviewed By: Brian Ford

Brian Ford
Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-13-121316 L879400-01 GW

Collected by: Karsten Springstead | Collected date/time: 12/13/16 12:15 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 12:29	12/24/16 12:29	JHH

MW-16-121316 L879400-02 GW

Collected by: Karsten Springstead | Collected date/time: 12/13/16 14:15 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 12:43	12/24/16 12:43	JHH

MW-12-121416 L879400-03 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 08:20 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 12:57	12/24/16 12:57	JHH

MW-10-121416 L879400-04 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 09:20 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 13:11	12/24/16 13:11	JHH

MW-3-121416 L879400-05 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 10:45 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 13:25	12/24/16 13:25	JHH

DC-3-121416 L879400-06 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 11:45 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 13:38	12/24/16 13:38	JHH

MW-4-121416 L879400-07 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 13:00 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 13:52	12/24/16 13:52	JHH

DC-4-121416 L879400-08 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 15:00 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 14:06	12/24/16 14:06	JHH

MW-100-121416 L879400-09 GW

Collected by: Karsten Springstead | Collected date/time: 12/14/16 13:15 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 14:19	12/24/16 14:19	JHH

MW-11-121516 L879400-10 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 08:00 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 14:33	12/24/16 14:33	JHH

DC-10A-121516 L879400-11 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 09:10 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 14:46	12/24/16 14:46	JHH

EQ-121516 L879400-12 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 09:45 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 15:00	12/24/16 15:00	JHH

KMW-2-121516 L879400-13 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 10:30 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 15:14	12/24/16 15:14	JHH

W-DRUM-2015 L879400-14 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 12:15 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 15:27	12/24/16 15:27	JHH

W-DRUM-2016 L879400-15 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 12:30 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 15:41	12/24/16 15:41	JHH

COND-2016 L879400-16 GW

Collected by: Karsten Springstead | Collected date/time: 12/15/16 12:45 | Received date/time: 12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 15:55	12/24/16 15:55	JHH

TRIPBLANK L879400-17 GW

Collected by	Collected date/time	Received date/time
Karsten Springstead	12/13/16 00:00	12/16/16 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG936831	1	12/24/16 12:15	12/24/16 12:15	JHH

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 12:29	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 12:29	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 12:29	WG936831
Benzene	ND		1.00	1	12/24/2016 12:29	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 12:29	WG936831
Bromoform	ND		1.00	1	12/24/2016 12:29	WG936831
Bromomethane	ND		5.00	1	12/24/2016 12:29	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 12:29	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 12:29	WG936831
Chloroethane	ND		5.00	1	12/24/2016 12:29	WG936831
Chloroform	ND		5.00	1	12/24/2016 12:29	WG936831
Chloromethane	ND		2.50	1	12/24/2016 12:29	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 12:29	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 12:29	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 12:29	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 12:29	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 12:29	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 12:29	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:29	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:29	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 12:29	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 12:29	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 12:29	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:29	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:29	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 12:29	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 12:29	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 12:29	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 12:29	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 12:29	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 12:29	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 12:29	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 12:29	WG936831
Naphthalene	ND		5.00	1	12/24/2016 12:29	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Styrene	ND		1.00	1	12/24/2016 12:29	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 12:29	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 12:29	WG936831
Toluene	ND		1.00	1	12/24/2016 12:29	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 12:29	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 12:29	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 12:29	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 12:29	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 12:29	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 12:29	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 12:29	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 12:29	WG936831
(S) Toluene-d8	*101*		*90.0-115*		*12/24/2016 12:29*	WG936831
(S) Dibromofluoromethane	*90.4*		*79.0-121*		*12/24/2016 12:29*	WG936831
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*12/24/2016 12:29*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 12:43	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 12:43	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 12:43	WG936831
Benzene	ND		1.00	1	12/24/2016 12:43	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 12:43	WG936831
Bromoform	ND		1.00	1	12/24/2016 12:43	WG936831
Bromomethane	ND		5.00	1	12/24/2016 12:43	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 12:43	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 12:43	WG936831
Chloroethane	ND		5.00	1	12/24/2016 12:43	WG936831
Chloroform	ND		5.00	1	12/24/2016 12:43	WG936831
Chloromethane	ND		2.50	1	12/24/2016 12:43	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 12:43	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 12:43	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 12:43	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 12:43	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 12:43	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 12:43	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:43	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:43	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 12:43	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 12:43	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 12:43	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:43	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:43	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 12:43	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 12:43	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 12:43	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 12:43	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 12:43	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 12:43	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 12:43	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 12:43	WG936831
Naphthalene	ND		5.00	1	12/24/2016 12:43	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Styrene	ND		1.00	1	12/24/2016 12:43	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 12:43	WG936831
Tetrachloroethene	1.63		1.00	1	12/24/2016 12:43	WG936831
Toluene	ND		1.00	1	12/24/2016 12:43	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 12:43	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 12:43	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 12:43	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 12:43	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 12:43	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 12:43	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 12:43	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 12:43	WG936831
(S) Toluene-d8	*100*		*90.0-115*		*12/24/2016 12:43*	WG936831
(S) Dibromofluoromethane	*90.2*		*79.0-121*		*12/24/2016 12:43*	WG936831
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*12/24/2016 12:43*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 12:57	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 12:57	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 12:57	WG936831
Benzene	ND		1.00	1	12/24/2016 12:57	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 12:57	WG936831
Bromoform	ND		1.00	1	12/24/2016 12:57	WG936831
Bromomethane	ND		5.00	1	12/24/2016 12:57	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 12:57	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 12:57	WG936831
Chloroethane	ND		5.00	1	12/24/2016 12:57	WG936831
Chloroform	ND		5.00	1	12/24/2016 12:57	WG936831
Chloromethane	ND		2.50	1	12/24/2016 12:57	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 12:57	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 12:57	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 12:57	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 12:57	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 12:57	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 12:57	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:57	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:57	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 12:57	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 12:57	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 12:57	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:57	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:57	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 12:57	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 12:57	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 12:57	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 12:57	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 12:57	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 12:57	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 12:57	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 12:57	WG936831
Naphthalene	ND		5.00	1	12/24/2016 12:57	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Styrene	ND		1.00	1	12/24/2016 12:57	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 12:57	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 12:57	WG936831
Toluene	ND		1.00	1	12/24/2016 12:57	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 12:57	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 12:57	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 12:57	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 12:57	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 12:57	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 12:57	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 12:57	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 12:57	WG936831
(S) Toluene-d8	*99.0*		*90.0-115*		*12/24/2016 12:57*	WG936831
(S) Dibromofluoromethane	*90.0*		*79.0-121*		*12/24/2016 12:57*	WG936831
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*12/24/2016 12:57*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 13:11	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 13:11	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 13:11	WG936831
Benzene	ND		1.00	1	12/24/2016 13:11	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 13:11	WG936831
Bromoform	ND		1.00	1	12/24/2016 13:11	WG936831
Bromomethane	ND		5.00	1	12/24/2016 13:11	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 13:11	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 13:11	WG936831
Chloroethane	ND		5.00	1	12/24/2016 13:11	WG936831
Chloroform	ND		5.00	1	12/24/2016 13:11	WG936831
Chloromethane	ND		2.50	1	12/24/2016 13:11	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 13:11	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 13:11	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 13:11	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 13:11	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 13:11	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 13:11	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:11	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:11	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 13:11	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 13:11	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 13:11	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:11	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:11	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 13:11	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 13:11	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 13:11	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 13:11	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 13:11	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 13:11	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 13:11	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 13:11	WG936831
Naphthalene	ND		5.00	1	12/24/2016 13:11	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Styrene	ND		1.00	1	12/24/2016 13:11	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 13:11	WG936831
Tetrachloroethene	1.13		1.00	1	12/24/2016 13:11	WG936831
Toluene	ND		1.00	1	12/24/2016 13:11	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 13:11	WG936831

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 13:11	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 13:11	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 13:11	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 13:11	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 13:11	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 13:11	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 13:11	WG936831
(S) Toluene-d8	*102*		*90.0-115*		*12/24/2016 13:11*	WG936831
(S) Dibromofluoromethane	*88.7*		*79.0-121*		*12/24/2016 13:11*	WG936831
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*12/24/2016 13:11*	WG936831

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	12/24/2016 13:25	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 13:25	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 13:25	WG936831
Benzene	ND		1.00	1	12/24/2016 13:25	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 13:25	WG936831
Bromoform	ND		1.00	1	12/24/2016 13:25	WG936831
Bromomethane	ND		5.00	1	12/24/2016 13:25	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 13:25	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 13:25	WG936831
Chloroethane	ND		5.00	1	12/24/2016 13:25	WG936831
Chloroform	ND		5.00	1	12/24/2016 13:25	WG936831
Chloromethane	ND		2.50	1	12/24/2016 13:25	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 13:25	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 13:25	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 13:25	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 13:25	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 13:25	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 13:25	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:25	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:25	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 13:25	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 13:25	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 13:25	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:25	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:25	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 13:25	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 13:25	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 13:25	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 13:25	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 13:25	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 13:25	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 13:25	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 13:25	WG936831
Naphthalene	ND		5.00	1	12/24/2016 13:25	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Styrene	ND		1.00	1	12/24/2016 13:25	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 13:25	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 13:25	WG936831
Toluene	ND		1.00	1	12/24/2016 13:25	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 13:25	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 13:25	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 13:25	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 13:25	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 13:25	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 13:25	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 13:25	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 13:25	WG936831
(S) Toluene-d8	*99.7*		*90.0-115*		*12/24/2016 13:25*	WG936831
(S) Dibromofluoromethane	*90.4*		*79.0-121*		*12/24/2016 13:25*	WG936831
(S) 4-Bromofluorobenzene	*103*		*80.1-120*		*12/24/2016 13:25*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 13:38	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 13:38	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 13:38	WG936831
Benzene	ND		1.00	1	12/24/2016 13:38	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 13:38	WG936831
Bromoform	ND		1.00	1	12/24/2016 13:38	WG936831
Bromomethane	ND		5.00	1	12/24/2016 13:38	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 13:38	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 13:38	WG936831
Chloroethane	ND		5.00	1	12/24/2016 13:38	WG936831
Chloroform	ND		5.00	1	12/24/2016 13:38	WG936831
Chloromethane	ND		2.50	1	12/24/2016 13:38	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 13:38	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 13:38	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 13:38	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 13:38	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 13:38	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 13:38	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:38	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:38	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 13:38	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 13:38	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 13:38	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:38	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:38	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 13:38	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 13:38	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 13:38	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 13:38	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 13:38	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 13:38	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 13:38	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 13:38	WG936831
Naphthalene	ND		5.00	1	12/24/2016 13:38	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Styrene	ND		1.00	1	12/24/2016 13:38	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 13:38	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 13:38	WG936831
Toluene	ND		1.00	1	12/24/2016 13:38	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 13:38	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 13:38	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 13:38	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 13:38	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 13:38	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 13:38	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 13:38	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 13:38	WG936831
(S) Toluene-d8	*99.6*		*90.0-115*		*12/24/2016 13:38*	WG936831
(S) Dibromofluoromethane	*90.1*		*79.0-121*		*12/24/2016 13:38*	WG936831
(S) 4-Bromofluorobenzene	*110*		*80.1-120*		*12/24/2016 13:38*	WG936831

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	12/24/2016 13:52	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 13:52	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 13:52	WG936831
Benzene	ND		1.00	1	12/24/2016 13:52	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 13:52	WG936831
Bromoform	ND		1.00	1	12/24/2016 13:52	WG936831
Bromomethane	ND		5.00	1	12/24/2016 13:52	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 13:52	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 13:52	WG936831
Chloroethane	ND		5.00	1	12/24/2016 13:52	WG936831
Chloroform	ND		5.00	1	12/24/2016 13:52	WG936831
Chloromethane	ND		2.50	1	12/24/2016 13:52	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 13:52	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 13:52	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 13:52	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 13:52	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 13:52	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 13:52	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:52	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 13:52	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 13:52	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 13:52	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 13:52	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:52	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 13:52	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 13:52	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 13:52	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 13:52	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 13:52	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 13:52	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 13:52	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 13:52	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 13:52	WG936831
Naphthalene	ND		5.00	1	12/24/2016 13:52	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Styrene	ND		1.00	1	12/24/2016 13:52	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 13:52	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 13:52	WG936831
Toluene	ND		1.00	1	12/24/2016 13:52	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 13:52	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 13:52	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 13:52	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 13:52	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 13:52	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 13:52	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 13:52	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 13:52	WG936831
(S) Toluene-d8	*101*		*90.0-115*		*12/24/2016 13:52*	WG936831
(S) Dibromofluoromethane	*89.8*		*79.0-121*		*12/24/2016 13:52*	WG936831
(S) 4-Bromofluorobenzene	*108*		*80.1-120*		*12/24/2016 13:52*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 14:06	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 14:06	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 14:06	WG936831
Benzene	ND		1.00	1	12/24/2016 14:06	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 14:06	WG936831
Bromoform	ND		1.00	1	12/24/2016 14:06	WG936831
Bromomethane	ND		5.00	1	12/24/2016 14:06	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 14:06	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 14:06	WG936831
Chloroethane	ND		5.00	1	12/24/2016 14:06	WG936831
Chloroform	ND		5.00	1	12/24/2016 14:06	WG936831
Chloromethane	ND		2.50	1	12/24/2016 14:06	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 14:06	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 14:06	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 14:06	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 14:06	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 14:06	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 14:06	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:06	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:06	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 14:06	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 14:06	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 14:06	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:06	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:06	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 14:06	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 14:06	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 14:06	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 14:06	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 14:06	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 14:06	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 14:06	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 14:06	WG936831
Naphthalene	ND		5.00	1	12/24/2016 14:06	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Styrene	ND		1.00	1	12/24/2016 14:06	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 14:06	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 14:06	WG936831
Toluene	ND		1.00	1	12/24/2016 14:06	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 14:06	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 14:06	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 14:06	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 14:06	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 14:06	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 14:06	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 14:06	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 14:06	WG936831
(S) Toluene-d8	*99.5*		*90.0-115*		*12/24/2016 14:06*	WG936831
(S) Dibromofluoromethane	*90.5*		*79.0-121*		*12/24/2016 14:06*	WG936831
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*12/24/2016 14:06*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 14:19	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 14:19	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 14:19	WG936831
Benzene	ND		1.00	1	12/24/2016 14:19	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 14:19	WG936831
Bromoform	ND		1.00	1	12/24/2016 14:19	WG936831
Bromomethane	ND		5.00	1	12/24/2016 14:19	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 14:19	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 14:19	WG936831
Chloroethane	ND		5.00	1	12/24/2016 14:19	WG936831
Chloroform	ND		5.00	1	12/24/2016 14:19	WG936831
Chloromethane	ND		2.50	1	12/24/2016 14:19	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 14:19	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 14:19	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 14:19	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 14:19	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 14:19	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 14:19	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:19	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:19	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 14:19	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 14:19	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 14:19	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:19	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:19	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 14:19	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 14:19	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 14:19	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 14:19	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 14:19	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 14:19	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 14:19	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 14:19	WG936831
Naphthalene	ND		5.00	1	12/24/2016 14:19	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Styrene	ND		1.00	1	12/24/2016 14:19	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 14:19	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 14:19	WG936831
Toluene	ND		1.00	1	12/24/2016 14:19	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 14:19	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 14:19	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 14:19	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 14:19	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 14:19	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 14:19	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 14:19	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 14:19	WG936831
(S) Toluene-d8	*102*		*90.0-115*		*12/24/2016 14:19*	WG936831
(S) Dibromofluoromethane	*90.5*		*79.0-121*		*12/24/2016 14:19*	WG936831
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*12/24/2016 14:19*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 14:33	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 14:33	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 14:33	WG936831
Benzene	ND		1.00	1	12/24/2016 14:33	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 14:33	WG936831
Bromoform	ND		1.00	1	12/24/2016 14:33	WG936831
Bromomethane	ND		5.00	1	12/24/2016 14:33	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 14:33	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 14:33	WG936831
Chloroethane	ND		5.00	1	12/24/2016 14:33	WG936831
Chloroform	ND		5.00	1	12/24/2016 14:33	WG936831
Chloromethane	ND		2.50	1	12/24/2016 14:33	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 14:33	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 14:33	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 14:33	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 14:33	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 14:33	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 14:33	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:33	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:33	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 14:33	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 14:33	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 14:33	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:33	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:33	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 14:33	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 14:33	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 14:33	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 14:33	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 14:33	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 14:33	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 14:33	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 14:33	WG936831
Naphthalene	ND		5.00	1	12/24/2016 14:33	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Styrene	ND		1.00	1	12/24/2016 14:33	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 14:33	WG936831
Tetrachloroethene	7.99		1.00	1	12/24/2016 14:33	WG936831
Toluene	ND		1.00	1	12/24/2016 14:33	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 14:33	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 14:33	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 14:33	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 14:33	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 14:33	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 14:33	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 14:33	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 14:33	WG936831
(S) Toluene-d8	*101*		*90.0-115*		*12/24/2016 14:33*	WG936831
(S) Dibromofluoromethane	*91.9*		*79.0-121*		*12/24/2016 14:33*	WG936831
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*12/24/2016 14:33*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 14:46	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 14:46	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 14:46	WG936831
Benzene	ND		1.00	1	12/24/2016 14:46	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 14:46	WG936831
Bromoform	ND		1.00	1	12/24/2016 14:46	WG936831
Bromomethane	ND		5.00	1	12/24/2016 14:46	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 14:46	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 14:46	WG936831
Chloroethane	ND		5.00	1	12/24/2016 14:46	WG936831
Chloroform	ND		5.00	1	12/24/2016 14:46	WG936831
Chloromethane	ND		2.50	1	12/24/2016 14:46	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 14:46	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 14:46	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 14:46	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 14:46	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 14:46	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 14:46	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:46	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 14:46	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 14:46	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 14:46	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 14:46	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:46	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 14:46	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 14:46	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 14:46	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 14:46	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 14:46	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 14:46	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 14:46	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 14:46	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 14:46	WG936831
Naphthalene	ND		5.00	1	12/24/2016 14:46	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Styrene	ND		1.00	1	12/24/2016 14:46	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 14:46	WG936831
Tetrachloroethene	10.8		1.00	1	12/24/2016 14:46	WG936831
Toluene	ND		1.00	1	12/24/2016 14:46	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 14:46	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 14:46	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 14:46	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 14:46	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 14:46	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 14:46	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 14:46	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 14:46	WG936831
(S) Toluene-d8	*102*		*90.0-115*		*12/24/2016 14:46*	WG936831
(S) Dibromofluoromethane	*88.9*		*79.0-121*		*12/24/2016 14:46*	WG936831
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*12/24/2016 14:46*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 15:00	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 15:00	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 15:00	WG936831
Benzene	ND		1.00	1	12/24/2016 15:00	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 15:00	WG936831
Bromoform	ND		1.00	1	12/24/2016 15:00	WG936831
Bromomethane	ND		5.00	1	12/24/2016 15:00	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 15:00	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 15:00	WG936831
Chloroethane	ND		5.00	1	12/24/2016 15:00	WG936831
Chloroform	ND		5.00	1	12/24/2016 15:00	WG936831
Chloromethane	ND		2.50	1	12/24/2016 15:00	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 15:00	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 15:00	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 15:00	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 15:00	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 15:00	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 15:00	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:00	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:00	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 15:00	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 15:00	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 15:00	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:00	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:00	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 15:00	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 15:00	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 15:00	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 15:00	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 15:00	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 15:00	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 15:00	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 15:00	WG936831
Naphthalene	ND		5.00	1	12/24/2016 15:00	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Styrene	ND		1.00	1	12/24/2016 15:00	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 15:00	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 15:00	WG936831
Toluene	ND		1.00	1	12/24/2016 15:00	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 15:00	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 15:00	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 15:00	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 15:00	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 15:00	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 15:00	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 15:00	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 15:00	WG936831
(S) Toluene-d8	*101*		*90.0-115*		*12/24/2016 15:00*	WG936831
(S) Dibromofluoromethane	*91.9*		*79.0-121*		*12/24/2016 15:00*	WG936831
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*12/24/2016 15:00*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 15:14	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 15:14	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 15:14	WG936831
Benzene	ND		1.00	1	12/24/2016 15:14	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 15:14	WG936831
Bromoform	ND		1.00	1	12/24/2016 15:14	WG936831
Bromomethane	ND		5.00	1	12/24/2016 15:14	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 15:14	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 15:14	WG936831
Chloroethane	ND		5.00	1	12/24/2016 15:14	WG936831
Chloroform	ND		5.00	1	12/24/2016 15:14	WG936831
Chloromethane	ND		2.50	1	12/24/2016 15:14	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 15:14	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 15:14	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 15:14	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 15:14	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 15:14	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 15:14	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:14	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:14	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 15:14	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 15:14	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 15:14	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:14	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:14	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 15:14	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 15:14	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 15:14	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 15:14	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 15:14	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 15:14	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 15:14	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 15:14	WG936831
Naphthalene	ND		5.00	1	12/24/2016 15:14	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Styrene	ND		1.00	1	12/24/2016 15:14	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 15:14	WG936831
Tetrachloroethene	1.18		1.00	1	12/24/2016 15:14	WG936831
Toluene	ND		1.00	1	12/24/2016 15:14	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 15:14	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 15:14	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 15:14	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 15:14	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 15:14	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 15:14	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 15:14	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 15:14	WG936831
(S) Toluene-d8	*103*		*90.0-115*		*12/24/2016 15:14*	WG936831
(S) Dibromofluoromethane	*89.4*		*79.0-121*		*12/24/2016 15:14*	WG936831
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*12/24/2016 15:14*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 15:27	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 15:27	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 15:27	WG936831
Benzene	ND		1.00	1	12/24/2016 15:27	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 15:27	WG936831
Bromoform	ND		1.00	1	12/24/2016 15:27	WG936831
Bromomethane	ND		5.00	1	12/24/2016 15:27	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 15:27	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 15:27	WG936831
Chloroethane	ND		5.00	1	12/24/2016 15:27	WG936831
Chloroform	ND		5.00	1	12/24/2016 15:27	WG936831
Chloromethane	ND		2.50	1	12/24/2016 15:27	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 15:27	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 15:27	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 15:27	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 15:27	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 15:27	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 15:27	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:27	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:27	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 15:27	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 15:27	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 15:27	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:27	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:27	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 15:27	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 15:27	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 15:27	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 15:27	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 15:27	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 15:27	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 15:27	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 15:27	WG936831
Naphthalene	ND		5.00	1	12/24/2016 15:27	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Styrene	ND		1.00	1	12/24/2016 15:27	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 15:27	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 15:27	WG936831
Toluene	ND		1.00	1	12/24/2016 15:27	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 15:27	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 15:27	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 15:27	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 15:27	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 15:27	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 15:27	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 15:27	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 15:27	WG936831
(S) Toluene-d8	*102*		*90.0-115*		*12/24/2016 15:27*	WG936831
(S) Dibromofluoromethane	*91.7*		*79.0-121*		*12/24/2016 15:27*	WG936831
(S) 4-Bromofluorobenzene	*104*		*80.1-120*		*12/24/2016 15:27*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 15:41	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 15:41	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 15:41	WG936831
Benzene	ND		1.00	1	12/24/2016 15:41	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 15:41	WG936831
Bromoform	ND		1.00	1	12/24/2016 15:41	WG936831
Bromomethane	ND		5.00	1	12/24/2016 15:41	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 15:41	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 15:41	WG936831
Chloroethane	ND		5.00	1	12/24/2016 15:41	WG936831
Chloroform	ND		5.00	1	12/24/2016 15:41	WG936831
Chloromethane	ND		2.50	1	12/24/2016 15:41	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 15:41	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 15:41	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 15:41	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 15:41	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 15:41	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 15:41	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:41	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:41	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 15:41	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 15:41	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 15:41	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:41	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:41	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 15:41	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 15:41	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 15:41	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 15:41	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 15:41	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 15:41	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 15:41	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 15:41	WG936831
Naphthalene	ND		5.00	1	12/24/2016 15:41	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Styrene	ND		1.00	1	12/24/2016 15:41	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 15:41	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 15:41	WG936831
Toluene	ND		1.00	1	12/24/2016 15:41	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 15:41	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 15:41	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 15:41	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 15:41	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 15:41	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 15:41	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 15:41	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 15:41	WG936831
(S) Toluene-d8	*100*		*90.0-115*		*12/24/2016 15:41*	WG936831
(S) Dibromofluoromethane	*91.8*		*79.0-121*		*12/24/2016 15:41*	WG936831
(S) 4-Bromofluorobenzene	*107*		*80.1-120*		*12/24/2016 15:41*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 15:55	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 15:55	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 15:55	WG936831
Benzene	ND		1.00	1	12/24/2016 15:55	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 15:55	WG936831
Bromoform	ND		1.00	1	12/24/2016 15:55	WG936831
Bromomethane	ND		5.00	1	12/24/2016 15:55	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 15:55	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 15:55	WG936831
Chloroethane	ND		5.00	1	12/24/2016 15:55	WG936831
Chloroform	ND		5.00	1	12/24/2016 15:55	WG936831
Chloromethane	ND		2.50	1	12/24/2016 15:55	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 15:55	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 15:55	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 15:55	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 15:55	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 15:55	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 15:55	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:55	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 15:55	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 15:55	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 15:55	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 15:55	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:55	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 15:55	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 15:55	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 15:55	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 15:55	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 15:55	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 15:55	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 15:55	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 15:55	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 15:55	WG936831
Naphthalene	ND		5.00	1	12/24/2016 15:55	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Styrene	ND		1.00	1	12/24/2016 15:55	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 15:55	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 15:55	WG936831
Toluene	ND		1.00	1	12/24/2016 15:55	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 15:55	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 15:55	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 15:55	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 15:55	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 15:55	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 15:55	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 15:55	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 15:55	WG936831
(S) Toluene-d8	*101*		*90.0-115*		*12/24/2016 15:55*	WG936831
(S) Dibromofluoromethane	*89.1*		*79.0-121*		*12/24/2016 15:55*	WG936831
(S) 4-Bromofluorobenzene	*109*		*80.1-120*		*12/24/2016 15:55*	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	12/24/2016 12:15	WG936831
Acrolein	ND	J4	50.0	1	12/24/2016 12:15	WG936831
Acrylonitrile	ND		10.0	1	12/24/2016 12:15	WG936831
Benzene	ND		1.00	1	12/24/2016 12:15	WG936831
Bromobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Bromodichloromethane	ND		1.00	1	12/24/2016 12:15	WG936831
Bromoform	ND		1.00	1	12/24/2016 12:15	WG936831
Bromomethane	ND		5.00	1	12/24/2016 12:15	WG936831
n-Butylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
sec-Butylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
tert-Butylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Carbon tetrachloride	ND		1.00	1	12/24/2016 12:15	WG936831
Chlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Chlorodibromomethane	ND		1.00	1	12/24/2016 12:15	WG936831
Chloroethane	ND		5.00	1	12/24/2016 12:15	WG936831
Chloroform	ND		5.00	1	12/24/2016 12:15	WG936831
Chloromethane	ND		2.50	1	12/24/2016 12:15	WG936831
2-Chlorotoluene	ND		1.00	1	12/24/2016 12:15	WG936831
4-Chlorotoluene	ND		1.00	1	12/24/2016 12:15	WG936831
1,2-Dibromo-3-Chloropropane	ND		5.00	1	12/24/2016 12:15	WG936831
1,2-Dibromoethane	ND		1.00	1	12/24/2016 12:15	WG936831
Dibromomethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,2-Dichlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
1,3-Dichlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
1,4-Dichlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Dichlorodifluoromethane	ND		5.00	1	12/24/2016 12:15	WG936831
1,1-Dichloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,2-Dichloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,1-Dichloroethene	ND		1.00	1	12/24/2016 12:15	WG936831
cis-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:15	WG936831
trans-1,2-Dichloroethene	ND		1.00	1	12/24/2016 12:15	WG936831
1,2-Dichloropropane	ND		1.00	1	12/24/2016 12:15	WG936831
1,1-Dichloropropene	ND		1.00	1	12/24/2016 12:15	WG936831
1,3-Dichloropropane	ND		1.00	1	12/24/2016 12:15	WG936831
cis-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:15	WG936831
trans-1,3-Dichloropropene	ND		1.00	1	12/24/2016 12:15	WG936831
2,2-Dichloropropane	ND		1.00	1	12/24/2016 12:15	WG936831
Di-isopropyl ether	ND		1.00	1	12/24/2016 12:15	WG936831
Ethylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Hexachloro-1,3-butadiene	ND		1.00	1	12/24/2016 12:15	WG936831
Isopropylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
p-Isopropyltoluene	ND		1.00	1	12/24/2016 12:15	WG936831
2-Butanone (MEK)	ND		10.0	1	12/24/2016 12:15	WG936831
Methylene Chloride	ND		5.00	1	12/24/2016 12:15	WG936831
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	12/24/2016 12:15	WG936831
Methyl tert-butyl ether	ND		1.00	1	12/24/2016 12:15	WG936831
Naphthalene	ND		5.00	1	12/24/2016 12:15	WG936831
n-Propylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Styrene	ND		1.00	1	12/24/2016 12:15	WG936831
1,1,1,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,1,2,2-Tetrachloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	12/24/2016 12:15	WG936831
Tetrachloroethene	ND		1.00	1	12/24/2016 12:15	WG936831
Toluene	ND		1.00	1	12/24/2016 12:15	WG936831
1,2,3-Trichlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831
1,2,4-Trichlorobenzene	ND		1.00	1	12/24/2016 12:15	WG936831

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
1,1,2-Trichloroethane	ND		1.00	1	12/24/2016 12:15	WG936831
Trichloroethene	ND		1.00	1	12/24/2016 12:15	WG936831
Trichlorofluoromethane	ND		5.00	1	12/24/2016 12:15	WG936831
1,2,3-Trichloropropane	ND		2.50	1	12/24/2016 12:15	WG936831
1,2,4-Trimethylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
1,2,3-Trimethylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
1,3,5-Trimethylbenzene	ND		1.00	1	12/24/2016 12:15	WG936831
Vinyl chloride	ND		1.00	1	12/24/2016 12:15	WG936831
Xylenes, Total	ND		3.00	1	12/24/2016 12:15	WG936831
(S) Toluene-d8	*102*		*90.0-115*		*12/24/2016 12:15*	WG936831
(S) Dibromofluoromethane	*87.3*		*79.0-121*		*12/24/2016 12:15*	WG936831
(S) 4-Bromofluorobenzene	*106*		*80.1-120*		*12/24/2016 12:15*	WG936831

Method Blank (MB)

(MB) R3187347-3 12/24/16 11:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3187347-3 12/24/16 11:13

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*101*			*90.0-115*
(S) Dibromofluoromethane	*89.3*			*79.0-121*
(S) 4-Bromofluorobenzene	*106*			*80.1-120*

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

(LCS) R3187347-1 12/24/16 10:31 • (LCSD) R3187347-2 12/24/16 10:45

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	166	167	133	134	28.7-175			0.730	20.9
Acrolein	125	673	689	538	551	40.4-172	E J4	E J4	2.40	20
Acrylonitrile	125	120	121	96.1	96.8	58.2-145			0.740	20
Benzene	25.0	24.4	23.8	97.6	95.2	73.0-122			2.44	20

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

(LCS) R3187347-1 12/24/16 10:31 • (LCSD) R3187347-2 12/24/16 10:45

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	26.0	24.8	104	99.0	81.5-115			4.94	20
Bromodichloromethane	25.0	24.2	24.9	96.8	99.7	75.5-121			2.95	20
Bromoform	25.0	24.5	23.4	98.0	93.6	71.5-131			4.59	20
Bromomethane	25.0	22.4	22.3	89.6	89.0	22.4-187			0.600	20
n-Butylbenzene	25.0	29.5	29.7	118	119	75.9-134			0.800	20
sec-Butylbenzene	25.0	29.4	28.9	118	116	80.6-126			1.76	20
tert-Butylbenzene	25.0	27.9	27.0	112	108	79.3-127			3.28	20
Carbon tetrachloride	25.0	24.1	23.7	96.2	94.9	70.9-129			1.40	20
Chlorobenzene	25.0	26.8	25.8	107	103	79.7-122			3.70	20
Chlorodibromomethane	25.0	25.4	25.7	102	103	78.2-124			1.24	20
Chloroethane	25.0	24.0	24.4	96.0	97.8	41.2-153			1.89	20
Chloroform	25.0	23.9	24.1	95.7	96.5	73.2-125			0.890	20
Chloromethane	25.0	23.8	23.3	95.1	93.0	55.8-134			2.26	20
2-Chlorotoluene	25.0	27.4	26.9	110	108	76.4-125			1.98	20
4-Chlorotoluene	25.0	26.6	25.6	106	102	81.5-121			3.89	20
1,2-Dibromo-3-Chloropropane	25.0	23.8	25.5	95.3	102	64.8-131			6.95	20
1,2-Dibromoethane	25.0	25.1	24.7	100	99.0	79.8-122			1.24	20
Dibromomethane	25.0	24.1	24.3	96.5	97.0	78.8-119			0.520	20
1,2-Dichlorobenzene	25.0	26.0	27.1	104	108	84.7-118			4.05	20
1,3-Dichlorobenzene	25.0	24.8	26.8	99.2	107	77.6-127			7.62	20
1,4-Dichlorobenzene	25.0	25.5	23.2	102	92.8	82.2-114			9.30	20
Dichlorodifluoromethane	25.0	26.5	25.6	106	102	56.0-134			3.38	20
1,1-Dichloroethane	25.0	24.5	24.1	98.0	96.5	71.7-127			1.57	20
1,2-Dichloroethane	25.0	23.6	23.6	94.6	94.5	79.8-122			0.110	20
1,1-Dichloroethene	25.0	26.9	26.3	108	105	59.9-137			2.18	20
cis-1,2-Dichloroethene	25.0	25.4	25.5	102	102	77.3-122			0.440	20
trans-1,2-Dichloroethene	25.0	25.0	24.6	100	98.3	72.6-125			1.80	20
1,2-Dichloropropane	25.0	26.5	26.2	106	105	77.4-125			0.940	20
1,1-Dichloropropene	25.0	26.7	25.8	107	103	72.5-127			3.34	20
1,3-Dichloropropane	25.0	25.6	25.1	103	100	80.6-115			2.14	20
cis-1,3-Dichloropropene	25.0	27.1	27.4	108	110	77.7-124			1.13	20
trans-1,3-Dichloropropene	25.0	23.2	22.9	92.9	91.5	73.5-127			1.47	20
2,2-Dichloropropane	25.0	25.1	25.0	100	100	61.3-134			0.300	20
Di-isopropyl ether	25.0	23.6	23.4	94.5	93.5	65.1-135			1.05	20
Ethylbenzene	25.0	27.0	26.1	108	105	80.9-121			3.17	20
Hexachloro-1,3-butadiene	25.0	29.3	29.8	117	119	73.7-133			1.73	20
Isopropylbenzene	25.0	27.5	26.9	110	108	81.6-124			2.15	20
p-Isopropyltoluene	25.0	29.2	28.6	117	114	77.6-129			2.20	20
2-Butanone (MEK)	125	137	138	109	110	46.4-155			0.850	20
Methylene Chloride	25.0	25.1	24.8	100	99.2	69.5-120			1.04	20

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

(LCS) R3187347-1 12/24/16 10:31 • (LCSD) R3187347-2 12/24/16 10:45

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 %
4-Methyl-2-pentanone (MIBK)	125	134	137	107	109	63.3-138			1.78	20
Methyl tert-butyl ether	25.0	23.3	23.5	93.3	93.9	70.1-125			0.610	20
Naphthalene	25.0	26.6	28.2	106	113	69.7-134			5.88	20
n-Propylbenzene	25.0	27.4	26.7	110	107	81.9-122			2.62	20
Styrene	25.0	27.5	26.7	110	107	79.9-124			2.92	20
1,1,1,2-Tetrachloroethane	25.0	26.2	26.1	105	104	78.5-125			0.660	20
1,1,2,2-Tetrachloroethane	25.0	24.5	24.9	98.2	99.8	79.3-123			1.66	20
Tetrachloroethene	25.0	26.5	25.0	106	100	73.5-130			5.82	20
Toluene	25.0	25.7	25.5	103	102	77.9-116			0.650	20
1,1,2-Trichlorotrifluoroethane	25.0	28.2	26.9	113	107	62.0-141			4.79	20
1,2,3-Trichlorobenzene	25.0	26.1	27.7	104	111	75.7-134			5.85	20
1,2,4-Trichlorobenzene	25.0	27.7	28.4	111	114	76.1-136			2.54	20
1,1,1-Trichloroethane	25.0	25.3	24.4	101	97.7	71.1-129			3.36	20
1,1,2-Trichloroethane	25.0	25.2	23.8	101	95.3	81.6-120			5.57	20
Trichloroethene	25.0	26.0	26.3	104	105	79.5-121			1.32	20
Trichlorofluoromethane	25.0	24.2	23.7	96.7	94.6	49.1-157			2.12	20
1,2,3-Trichloropropane	25.0	26.0	25.3	104	101	74.9-124			2.46	20
1,2,3-Trimethylbenzene	25.0	27.5	28.3	110	113	79.9-118			3.05	20
1,2,4-Trimethylbenzene	25.0	28.1	27.2	112	109	79.0-122			3.18	20
1,3,5-Trimethylbenzene	25.0	27.0	27.0	108	108	81.0-123			0.160	20
Vinyl chloride	25.0	25.5	25.3	102	101	61.5-134			0.740	20
Xylenes, Total	75.0	78.8	76.6	105	102	79.2-122			2.90	20
(S) Toluene-d8				*102*	*104*	*90.0-115*				
(S) Dibromofluoromethane				*91.8*	*91.0*	*79.0-121*				
(S) 4-Bromofluorobenzene				*101*	*97.5*	*80.1-120*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(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.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J4	The associated batch QC was outside the established quality control range for accuracy.

ESC Lab Sciences 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.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

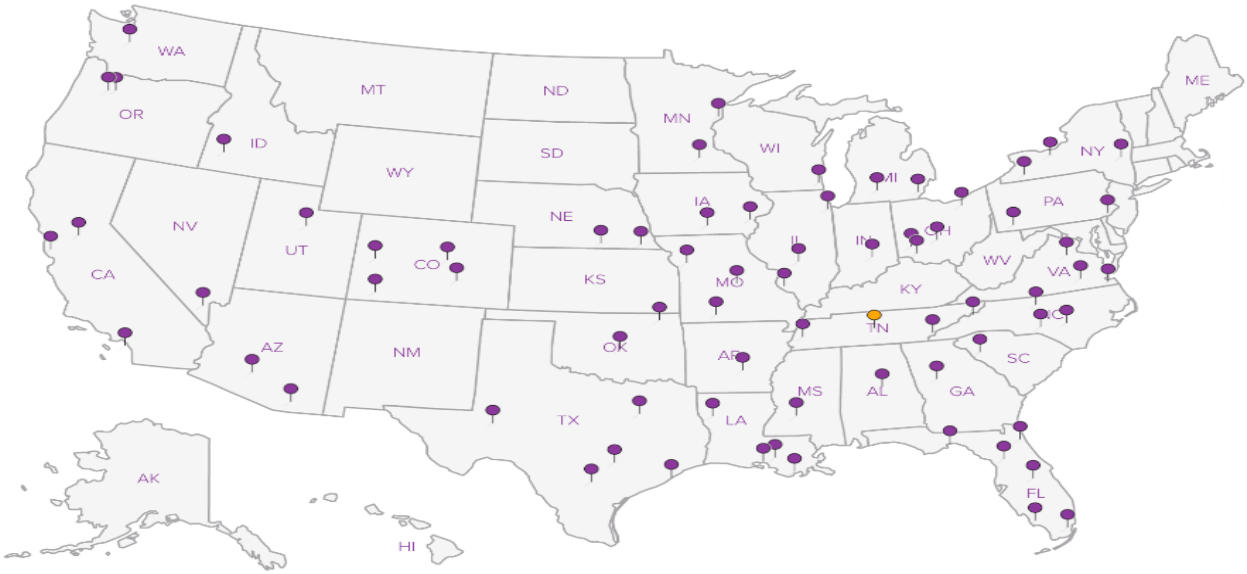
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences 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. **ESC Lab Sciences performs all testing at our central laboratory.**



PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information & Quote Number:
Attn: Accounts Payable
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report to: Matt Dahl

Email To: mdahl@pesenv.com

Project Description: MVSC

City/State Collected: Normandy Park, WA

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

Client Project # 1358.001.01

Lab Project # PESENVSWA-135800101

Collected by (print): Karsten Springstead

Site/Facility ID # MVSC

P.O. # 1358.001.01 .003

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORY SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# L879400

K105

Acctnum: PESENVSWA
Template: T118296
Prelogin: P578378
TSR: 110 - Brian Ford
PB: 12-1-16 Gm
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260C 40mlAmb-HCl	V8260C trip blk 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
MW-13-121316	Grab	GW	40	12-13-16	1215	2	X			-01
MW-16-121316		GW	41	12-13-16	1415	2	X			-02
MW-12-121416		GW	42	12-14-16	820	2	X			-03
MW-10-121416		GW	38		920	2	X			-04
MW-3-121416		GW	41		1045	2	X			-05
DC-3-121416		GW	45		1145	2	X			-06
MW-4-121416		GW	41		1300	2	X			-07
DC-4-121416		GW	44.5		1500	2	X			-08
MW-100-121416		GW	41		1315	2	X			-09
MW-11-121516		GW	38	12-15-16	800	2	X			-10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:
1 of 2 coolers (samples maybe in other cooler)

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	12-15-16	1500	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
			7066 8130 7170
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 33

Date: 12-16-16 Time: 0900

Condition: ok (lab use only) MH

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

PES Environmental, Inc.- WA 1215 Fourth Ave., Suite 1350 Seattle, WA 98161	Billing Information & Quote Number: Attn: Accounts Payable 1215 Fourth Ave., Suite 1350 Seattle, WA 98161	Chain of Custody Page 2 of 2 ESC LAB SCIENCES YOUR LAB OF CHOICE 12065 Lebanon Rd Mount Juliet, TN 37122 Phone: 615-758-5858 Phone: 800-767-5859 Fax: 615-758-5859
Report to: Matt Dahl	Email To: mdahl@pesenv.com	
Project Description: MVSC	City/State Collected: Normandy Park, WA	L# L879400
Phone: 206-529-3980 Fax: 206-529-3985	Client Project # 1358.001.01	Lab Project # PESENVSWA-135800101
Collected by (print): Karsten Sorhus tad	Site/Facility ID # MVSC	P.O. # 1358.001.01.003
Collected by (signature): Immediately Packed on Ice N ___ Y X	*Rush?* (Lab MUST Be Notified) ___ Same Day .....200% ___ Next Day .....100% ___ Two Day .....50% ___ Three Day 25%	Date Results Needed Email? ___No X_Yes FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	V8260C 40mlAmb-HCl	V8260C trip blk 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
DC-10A-121516	Grab	GW	37	12-15-16	910	2	X			-11
EQ-121516	Grab	GW	—	12-15-16	~~1330~~ 945	2	X			-12
KMW-2-121516	Grab	GW	37	12-15-16	1030	2	X			-13
W-DRUM-2015	Comp	WW	—	12-15-16	1215	2	X			-14
W-DRUM-2016	Grab	WW	—	12-15-16	1230	2	X			-15
COND-2016	Grab	WW	—	12-15-16	1245	2	X			-16
TRIPBLANK	—	—	—	—	—	2		X		-17

Acctnum: PESENVSWA
Template: T118296
Prelogin: P578378
TSR: 110 - Brian Ford
PB: 12-1-16 Gm
Shipped Via: FedEx Ground

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 2 of 2 (Samples may be in Seand/other Cooler)

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date: 12-15-16	Time: 1500	Received by: (Signature)	Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.1°C Bottles Received: 33
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 12-16-16 Time: 0900

Condition: ok (lab use only) 704

COC Seal Intact: ✓ Y ___N ___NA

pH Checked: NCF:

ESC
LAB SCIENCES
YOUR LAB OF CHOICE

Cooler Receipt Form

Client: PESENVSWA	SDG#	L67940
Cooler Received/Opened On: 12/ 16 /16	Temperature Upon Receipt:	3.1 °c
Received By: Michael Lowe		
Signature:		

Receipt Check List	Yes	No	N/A
Were custody seals on outside of cooler and intact?	/		
Were custody papers properly filled out?	/		
Did all bottles arrive in good condition?	/		
Were correct bottles used for the analyses requested?	/		
Was sufficient amount of sample sent in each bottle?	/		
Were all applicable sample containers correctly preserved and checked for preservation? (Any not in accepted range noted on COC)			/
If applicable, was an observable VOA headspace present?		/	
Non Conformance Generated. (If yes see attached NCF)			

ESC Lab Sciences
Non-Conformance Form

Login #:L879400	Client:PESENVSWA	Date:12/16/16	Evaluated by:Greg D.

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time		Login Clarification Needed		**If Broken Container:**
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courier
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		**If no Chain of Custody:**
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments:DC-10a-121516 one vial received broken

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions:

MEMORANDUM

TO: Project File **DATE:** January 3, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center and Harris Family

PROJECT #: 1358.001.01.007

TASK: December 13-15, 2016 Groundwater Samples

LAB: ECS Lab Sciences Request No. L879400

Twelve groundwater samples (including a field duplicate), three waste samples (two samples collected from purge drums and one sample collected from soil vapor extraction condensate storage vessel), associated equipment and trip blank were collected as part of remediation system performance groundwater sampling at the Manhattan Village Shopping Center and Harris Family site in Normandy Park, Washington on December 13, 14, and 15, 2016. The samples were analyzed for VOCs by USEPA Method 8260. Laboratory analytical services were provided by ESC Lab Sciences (ESC) of Mt. Juliet, Tennessee (ESC Report: L879400).

The quality assurance review of the laboratory data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The samples were stored on ice in two coolers and delivered in good condition to the laboratory. Cooler temperature at the time of receipt was measured at 3.1 degrees Centigrade (°C) and 2.1°C. The cooler temperatures was within EPAs recommended temperature preservation range of less than 6.0 °C. No data qualifications were warranted.

Holding Times

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days (preserved water). All holding time criteria were met.

Initial and Continuing Calibration

Hard copies of the calibration data for this project are not required in the data deliverable and are typically not reported. The laboratory is required to discuss discrepancies in calibration results associated with the project analyses if they occur. No calibration issues were reported; therefore no data qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blank at a concentration at or above the method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

Trip Blank Results

A trip blank was collected and analyzed for VOCs. No target analytes (VOCs) were detected in the trip blank at a concentration at or above the MRLs. No qualifications of the data were made due to the results of the trip blank analyses.

Equipment Blank Results

Equipment blank sample EQ-121516 was collected and analyzed for VOCs. No target analytes (VOCs) were detected in the equipment blank at a concentration at or above the MRLs. No qualifications of the data were made due to the results of the equipment blank analyses.

Field Duplicate Analyses

Field duplicate samples (MW-4-121416 and MW-100-121416) were collected and analyzed for VOCs. Results were comparable with relative percent difference (RPDs) of less than 20%.

Laboratory Duplicate Analyses

Laboratory duplicate analysis was not performed. Refer to field duplicate and laboratory control sample results for precision data.

Surrogate Recoveries

The surrogate percent recovery (%R) results for the samples, method blank, matrix spike, and laboratory control sample were within the laboratory surrogate control limits. No data qualifications were warranted.

Laboratory Control Samples

The laboratory control sample and sample duplicate (LCS/LCSD) %R's and relative percent differences (RPDs) were within the laboratory control limits with the following exception:

> LCS/LCSD spike compound acrolein was recovered (538% and 551%) above ESC's acceptance criteria (40-172%). ESC qualified all associated acrolein results to indicate that LCS/LCSD was recovered above acceptance criteria and exceeded the instrument initial calibration range. No action is taken since acrolein was not detected in associated samples.

Matrix Spike/Matrix Spike Duplicates

A matrix spike and matrix spike duplicate (MS/MSD) analysis was not performed. Refer to LCS/LCSD and field duplicate results for accuracy and precision data.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the USEPA 8260 VOC analyses were reported based on laboratory MRLs. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data were qualified. All data are judged to be acceptable for their intended use.

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1701142

January 23, 2017

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 1/18/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *01/23/2017*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1701142

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1701142-001	SYS-011817	01/18/2017 11:00 AM	01/18/2017 1:35 PM

Case Narrative

WO#: **1701142**
Date: **1/23/2017**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: PES Environmental, Inc.
WorkOrder: 1701142
Project: MVSC

Client Sample ID: SYS-011817
Lab ID: 1701142-001A
Sample Type: Summa Canister

Date Sampled: 1/18/2017
Date Received: 1/18/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	01/20/2017	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	01/20/2017	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	01/20/2017	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	01/20/2017	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	01/20/2017	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	01/20/2017	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	01/20/2017	BC
1,2,4-Trimethylbenzene	2.57	12.6	0.300	1.47		EPA-TO-15	01/20/2017	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	01/20/2017	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	01/20/2017	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	01/20/2017	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	01/20/2017	BC
1,3,5-Trimethylbenzene	0.647	3.18	0.300	1.47		EPA-TO-15	01/20/2017	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	01/20/2017	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	01/20/2017	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	01/20/2017	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	01/20/2017	BC
(MEK) 2-Butanone	0.545	1.61	0.500	1.47		EPA-TO-15	01/20/2017	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	01/20/2017	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	01/20/2017	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	01/20/2017	BC
Acetone	1.22	2.89	1.00	2.38		EPA-TO-15	01/20/2017	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	01/20/2017	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	01/20/2017	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	01/20/2017	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	01/20/2017	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	01/20/2017	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	01/20/2017	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	01/20/2017	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	01/20/2017	BC

Client: PES Environmental, Inc.
WorkOrder: 1701142
Project: MVSC

Client Sample ID: SYS-011817
Lab ID: 1701142-001A
Sample Type: Summa Canister

Date Sampled: 1/18/2017
Date Received: 1/18/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	01/20/2017	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	01/20/2017	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	01/20/2017	BC
Chloroform	0.625	3.05	0.200	0.977		EPA-TO-15	01/20/2017	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	01/20/2017	BC
cis-1,2-Dichloroethene	0.318	1.26	0.200	0.793		EPA-TO-15	01/20/2017	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	01/20/2017	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	01/20/2017	BC
Dichlorodifluoromethane (CFC-12)	0.705	3.49	0.300	1.48		EPA-TO-15	01/20/2017	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	01/20/2017	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	01/20/2017	BC
Ethylbenzene	0.909	3.95	0.300	1.30		EPA-TO-15	01/20/2017	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	01/20/2017	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	01/20/2017	BC
m,p-Xylene	4.27	18.6	0.200	0.868		EPA-TO-15	01/20/2017	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	01/20/2017	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	01/20/2017	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	01/20/2017	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	01/20/2017	BC
o-Xylene	1.71	7.43	0.200	0.868		EPA-TO-15	01/20/2017	BC
4-Ethyltoluene	0.618	3.04	0.300	1.47		EPA-TO-15	01/20/2017	BC
Propylene	1.05	1.81	0.500	0.861		EPA-TO-15	01/20/2017	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	01/20/2017	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	01/20/2017	BC
Tetrachloroethene (PCE)	52.9	359	4.80	32.6		EPA-TO-15	01/19/2017	BC
Tetrahydrofuran	4.80	14.2	0.500	1.47		EPA-TO-15	01/20/2017	BC
Toluene	2.14	8.07	0.200	0.754		EPA-TO-15	01/20/2017	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	01/20/2017	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	01/20/2017	BC
Trichloroethene (TCE)	0.320	1.72	0.200	1.07		EPA-TO-15	01/20/2017	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1701142
Project: MVSC

Client Sample ID: SYS-011817
Lab ID: 1701142-001A
Sample Type: Summa Canister

Date Sampled: 1/18/2017
Date Received: 1/18/2017

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	1.10	6.19	0.300	1.69		EPA-TO-15	01/20/2017	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	01/20/2017	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	01/20/2017	BC
Surr: 4-Bromofluorobenzene	97.7 %Rec	--	70-130	--		EPA-TO-15	01/20/2017	BC

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33989** SampType: **LCS** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **LCSW** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646590**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	4.46	0.500	5.000	0	89.2	70	130				
Dichlorodifluoromethane (CFC-12)	4.82	0.300	5.000	0	96.4	70	130				
Chloromethane	4.58	0.500	5.000	0	91.6	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.75	0.500	5.000	0	95.1	70	130				
Vinyl chloride	4.63	0.200	5.000	0	92.6	70	130				
1,3-Butadiene	4.64	0.500	5.000	0	92.7	70	130				
Bromomethane	4.80	0.500	5.000	0	96.0	70	130				
Trichlorofluoromethane (CFC-11)	4.93	0.300	5.000	0	98.6	70	130				
Chloroethane	4.91	0.500	5.000	0	98.2	70	130				
Acrolein	4.86	0.500	5.000	0	97.1	70	130				
1,1-Dichloroethene (DCE)	4.74	0.200	5.000	0	94.8	70	130				
Acetone	4.27	1.00	5.000	0	85.4	70	130				
Isopropyl Alcohol	4.72	1.00	5.000	0	94.4	70	130				
Methylene chloride	4.52	1.50	5.000	0	90.5	70	130				
Carbon disulfide	4.85	1.50	5.000	0	97.1	70	130				
trans-1,2-Dichloroethene	4.80	0.200	5.000	0	96.0	70	130				
Methyl tert-butyl ether (MTBE)	5.23	0.200	5.000	0	105	70	130				
Hexane	4.55	0.200	5.000	0	90.9	70	130				
1,1-Dichloroethane	4.78	0.200	5.000	0	95.6	70	130				
Vinyl acetate	4.81	1.00	5.000	0	96.2	70	130				
cis-1,2-Dichloroethene	4.92	0.200	5.000	0	98.4	70	130				
(MEK) 2-Butanone	5.06	0.500	5.000	0	101	70	130				
Ethyl acetate	4.93	1.00	5.000	0	98.6	70	130				
Chloroform	4.80	0.200	5.000	0	96.0	70	130				
Tetrahydrofuran	5.05	0.500	5.000	0	101	70	130				
1,1,1-Trichloroethane	4.76	0.200	5.000	0	95.1	70	130				
Carbon tetrachloride	4.93	0.200	5.000	0	98.6	70	130				
1,2-Dichloroethane	4.95	0.200	5.000	0	99.0	70	130				
Benzene	4.61	0.200	5.000	0	92.1	70	130				
Cyclohexane	4.70	0.200	5.000	0	93.9	70	130				
Trichloroethene (TCE)	4.98	0.200	5.000	0	99.5	70	130				

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R33989** SampType: **LCS** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **LCSW** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646590**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	4.93	0.500	5.000	0	98.6	70	130				
Methyl methacrylate	5.06	0.300	5.000	0	101	70	130				
Dichlorobromomethane	4.97	0.300	5.000	0	99.3	70	130				
1,4-Dioxane	4.66	1.00	5.000	0	93.1	70	130				
cis-1,3-dichloropropene	5.24	0.500	5.000	0	105	70	130				
Toluene	4.98	0.200	5.000	0	99.6	70	130				
trans-1,3-dichloropropene	5.29	0.500	5.000	0	106	70	130				
1,1,2-Trichloroethane (TCA)	5.11	0.500	5.000	0	102	70	130				
Tetrachloroethene (PCE)	5.17	0.300	5.000	0	103	70	130				
Dibromochloromethane	5.14	0.500	5.000	0	103	70	130				
1,2-Dibromoethane (EDB)	5.12	0.200	5.000	0	102	70	130				
Chlorobenzene	5.02	0.200	5.000	0	100	70	130				
Ethylbenzene	5.17	0.300	5.000	0	103	70	130				
m,p-Xylene	10.3	0.200	10.00	0	103	70	130				
o-Xylene	5.01	0.200	5.000	0	100	70	130				
Styrene	5.23	0.300	5.000	0	105	70	130				
Bromoform	5.25	0.200	5.000	0	105	70	130				
1,1,2,2-Tetrachloroethane	4.88	0.300	5.000	0	97.6	70	130				
1,3,5-Trimethylbenzene	4.85	0.300	5.000	0	97.0	70	130				
1,2,4-Trimethylbenzene	4.71	0.300	5.000	0	94.1	70	130				
Benzyl chloride	4.95	0.500	5.000	0	99.0	70	130				
4-Ethyltoluene	4.94	0.300	5.000	0	98.8	70	130				
1,3-Dichlorobenzene	4.83	0.300	5.000	0	96.7	70	130				
1,4-Dichlorobenzene	4.85	0.300	5.000	0	97.0	70	130				
1,2-Dichlorobenzene	4.73	0.500	5.000	0	94.6	70	130				
1,2,4-Trichlorobenzene	4.85	0.300	5.000	0	97.1	70	130				
Hexachlorobutadiene	4.94	1.00	5.000	0	98.8	70	130				
Naphthalene	4.81	0.300	5.000	0	96.2	70	130				
2-Hexanone	4.99	1.00	5.000	0	99.8	70	130				
4-Methyl-2-pentanone (MIBK)	4.79	1.00	5.000	0	95.8	70	130				
CFC-113	4.73	0.500	5.000	0	94.5	70	130				

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**LCS-R33989**	SampType: **LCS**		Units: **ppbv**		Prep Date: **1/19/2017**		RunNo: **33989**			
Client ID:	**LCSW**	Batch ID: **R33989**				Analysis Date: **1/19/2017**		SeqNo: **646590**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.39	0.500	5.000	0	87.8	70	130				
Surr: 4-Bromofluorobenzene	10.1		10.00		101	70	130				

Sample ID	**MB-R33989**	SampType: **MBLK**		Units: **ppbv**		Prep Date: **1/19/2017**		RunNo: **33989**			
Client ID:	**MBLKW**	Batch ID: **R33989**				Analysis Date: **1/19/2017**		SeqNo: **646591**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33989** SampType: **MBLK** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **MBLKW** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646591**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R33989** SampType: **MBLK** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **MBLKW** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646591**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.83		10.00		98.3	70	130				

Sample ID **1701189-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **BATCH** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646589**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	2.00						0		30	
Dichlorodifluoromethane (CFC-12)	ND	1.20						0		30	
Chloromethane	ND	2.00						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	2.00						0		30	
Vinyl chloride	ND	0.800						0		30	
1,3-Butadiene	ND	2.00						0		30	
Bromomethane	ND	2.00						0		30	
Trichlorofluoromethane (CFC-11)	ND	1.20						0		30	
Chloroethane	ND	2.00						0		30	
Acrolein	ND	2.00						0		30	
1,1-Dichloroethene (DCE)	ND	0.800						0		30	
Acetone	ND	4.00						0		30	
Isopropyl Alcohol	ND	4.00						0		30	
Methylene chloride	ND	6.00						0		30	
Carbon disulfide	ND	6.00						0		30	

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1701189-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **BATCH** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646589**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.800						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.800						0		30	
Hexane	3.95	0.800						0	200	30	
1,1-Dichloroethane	ND	0.800						0		30	
Vinyl acetate	ND	4.00						0		30	
cis-1,2-Dichloroethene	ND	0.800						0		30	
(MEK) 2-Butanone	ND	2.00						0		30	
Ethyl acetate	ND	4.00						0		30	
Chloroform	ND	0.800						0		30	
Tetrahydrofuran	ND	2.00						0		30	
1,1,1-Trichloroethane	ND	0.800						0		30	
Carbon tetrachloride	ND	0.800						0		30	
1,2-Dichloroethane	ND	0.800						0		30	
Benzene	ND	0.800						0		30	
Cyclohexane	ND	0.800						0		30	
Trichloroethene (TCE)	ND	0.800						0		30	
1,2-Dichloropropane	ND	2.00						0		30	
Methyl methacrylate	ND	1.20						0		30	
Dichlorobromomethane	ND	1.20						0		30	
1,4-Dioxane	ND	4.00						0		30	
cis-1,3-dichloropropene	ND	2.00						0		30	
Toluene	ND	0.800						0		30	
trans-1,3-dichloropropene	ND	2.00						0		30	
1,1,2-Trichloroethane (TCA)	ND	2.00						0		30	
Tetrachloroethene (PCE)	ND	1.20						0		30	
Dibromochloromethane	ND	2.00						0		30	
1,2-Dibromoethane (EDB)	ND	0.800						0		30	
Chlorobenzene	ND	0.800						0		30	
Ethylbenzene	ND	1.20						0		30	
m,p-Xylene	ND	0.800						0		30	
o-Xylene	ND	0.800						0		30	

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1701189-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/19/2017** RunNo: **33989**
Client ID: **BATCH** Batch ID: **R33989** Analysis Date: **1/19/2017** SeqNo: **646589**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	1.20						0		30	
Bromoform	ND	0.800						0		30	
1,1,2,2-Tetrachloroethane	ND	1.20						0		30	
1,3,5-Trimethylbenzene	ND	1.20						0		30	
1,2,4-Trimethylbenzene	ND	1.20						0		30	
Benzyl chloride	ND	2.00						0		30	
4-Ethyltoluene	ND	1.20						0		30	
1,3-Dichlorobenzene	ND	1.20						0		30	
1,4-Dichlorobenzene	ND	1.20						0		30	
1,2-Dichlorobenzene	ND	2.00						0		30	
1,2,4-Trichlorobenzene	ND	1.20						0		30	
Hexachlorobutadiene	ND	4.00						0		30	
Naphthalene	ND	1.20						0		30	
2-Hexanone	ND	4.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	4.00						0		30	
CFC-113	ND	2.00						0		30	
Heptane	3.57	2.00						4.666	26.7	30	
Surr: 4-Bromofluorobenzene	32.6		40.00		81.4	70	130		0		

Sample ID **1701142-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/20/2017** RunNo: **33989**
Client ID: **SYS-011817** Batch ID: **R33989** Analysis Date: **1/20/2017** SeqNo: **646580**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	0.984	0.500						1.053	6.75	30	
Dichlorodifluoromethane (CFC-12)	0.702	0.300						0.7047	0.384	30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1701142-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/20/2017** RunNo: **33989**
Client ID: **SYS-011817** Batch ID: **R33989** Analysis Date: **1/20/2017** SeqNo: **646580**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Trichlorofluoromethane (CFC-11)	1.12	0.300						1.101	1.51	30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	1.21	1.00						1.217	0.486	30	
Isopropyl Alcohol	ND	1.00						0		30	
Methylene chloride	ND	1.50						0		30	
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
Hexane	ND	0.200						0		30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	0.319	0.200						0.3185	0.0941	30	
(MEK) 2-Butanone	0.527	0.500						0.5451	3.32	30	
Ethyl acetate	ND	1.00						0		30	
Chloroform	0.645	0.200						0.6246	3.26	30	
Tetrahydrofuran	4.93	0.500						4.801	2.58	30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	ND	0.200						0		30	
Cyclohexane	ND	0.200						0		30	
Trichloroethene (TCE)	0.292	0.200						0.3202	9.25	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	2.22	0.200						2.143	3.59	30	
trans-1,3-dichloropropene	ND	0.500						0		30	

Work Order: 1701142
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1701142-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **1/20/2017** RunNo: **33989**
Client ID: **SYS-011817** Batch ID: **R33989** Analysis Date: **1/20/2017** SeqNo: **646580**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	63.9	0.300						61.45	3.85	30	E
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	0.946	0.300						0.9089	4.02	30	
m,p-Xylene	4.54	0.200						4.274	6.04	30	
o-Xylene	1.75	0.200						1.711	1.99	30	
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	0.636	0.300						0.6466	1.57	30	
1,2,4-Trimethylbenzene	2.57	0.300						2.572	0.0467	30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	0.632	0.300						0.6180	2.24	30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	9.67		10.00		96.7	70	130		0		

NOTES:
E - Estimated value. The amount exceeds the linear working range of the instrument.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1701142**
Logged by:	**Clare Griggs**	Date Received:	**1/18/2017 1:35:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1701142

Date: 1-18-17 Page: 1 of: 1

Client: PES
Address: 1215 4th Ave, Ste 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax: 206-529-3985

Project Name: MVSC
Project No: 1358.001.01.007 Collected by: K. Springstead
Location: Normandy Park, WA
Reports To (PM): Matt Dahl
Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-011817	15894 /	01-18-17 / 1100	SG	Grab	6L	Summa	10 mTorr / 1/17/17 9:00			30	4	TO-15	1/18	-4
2		/	/					/	/	/	/	/			
3		/	/					/	/	/	/	/			
4		/	/					/	/	/	/	/			
5		/	/					/	/	/	/	/			

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	1-18-17/1335	x	1/18/17 1335
x		x	

TAT → (STD) Rush (specify)

MEMORANDUM

TO: Project File **DATE:** April 3, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: January 18, 2017 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1701142

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on January 18, 2017. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1701142.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15 was performed within two days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate/Replicate Analyses

A laboratory duplicate was performed on a non-client sample and on client sample SYS-011817 within the analytical batch. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD) with the following exceptions:

> Hexane RPD was greater than laboratory acceptance criteria (30%). No action was taken since this exceedance is associated with a non-client sample and not representative of sample collected from the site. The remainder of the VOC T0-15 compound RPDs for the non-client sample and client sample SYS-011817 met laboratory acceptance criteria.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air sample, method blank, duplicate/replicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130%.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

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Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1702171

February 22, 2017

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 2/15/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *02/22/2017*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1702171

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1702171-001	SYS-021417	02/14/2017 11:00 AM	02/15/2017 2:15 PM

Case Narrative

WO#: **1702171**
Date: **2/22/2017**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: PES Environmental, Inc.
WorkOrder: 1702171
Project: MVSC

Client Sample ID: SYS-021417
Lab ID: 1702171-001A
Sample Type: Summa Canister

Date Sampled: 2/14/2017
Date Received: 2/15/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	02/21/2017	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	02/21/2017	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	02/21/2017	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	02/21/2017	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	02/21/2017	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	02/21/2017	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	02/21/2017	BC
1,2,4-Trimethylbenzene	1.10	5.42	0.300	1.47		EPA-TO-15	02/21/2017	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	02/21/2017	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	02/21/2017	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	02/21/2017	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	02/21/2017	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	02/21/2017	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	02/21/2017	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	02/21/2017	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	02/21/2017	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	02/21/2017	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	02/21/2017	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	02/21/2017	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	02/21/2017	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	02/21/2017	BC
Acetone	3.10	7.37	1.00	2.38		EPA-TO-15	02/21/2017	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	02/21/2017	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	02/21/2017	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	02/21/2017	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	02/21/2017	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	02/21/2017	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	02/21/2017	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	02/21/2017	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	02/21/2017	BC

Client: PES Environmental, Inc.
WorkOrder: 1702171
Project: MVSC

Client Sample ID: SYS-021417
Lab ID: 1702171-001A
Sample Type: Summa Canister

Date Sampled: 2/14/2017
Date Received: 2/15/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	02/21/2017	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	02/21/2017	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	02/21/2017	BC
Chloroform	0.568	2.77	0.200	0.977		EPA-TO-15	02/21/2017	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	02/21/2017	BC
cis-1,2-Dichloroethene	0.335	1.33	0.200	0.793		EPA-TO-15	02/21/2017	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	02/21/2017	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	02/21/2017	BC
Dichlorodifluoromethane (CFC-12)	0.616	3.05	0.300	1.48		EPA-TO-15	02/21/2017	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	02/21/2017	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	02/21/2017	BC
Ethylbenzene	0.627	2.72	0.300	1.30		EPA-TO-15	02/21/2017	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	02/21/2017	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	02/21/2017	BC
m,p-Xylene	2.76	12.0	0.200	0.868		EPA-TO-15	02/21/2017	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	02/21/2017	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	02/21/2017	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	02/21/2017	BC
Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	02/21/2017	BC
o-Xylene	0.984	4.27	0.200	0.868		EPA-TO-15	02/21/2017	BC
4-Ethyltoluene	0.316	1.56	0.300	1.47		EPA-TO-15	02/21/2017	BC
Propylene	1.16	1.99	0.500	0.861		EPA-TO-15	02/21/2017	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	02/21/2017	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	02/21/2017	BC
Tetrachloroethene (PCE)	36.6	248	4.80	32.6		EPA-TO-15	02/21/2017	BC
Tetrahydrofuran	4.63	13.7	0.500	1.47		EPA-TO-15	02/21/2017	BC
Toluene	2.65	10.0	0.200	0.754		EPA-TO-15	02/21/2017	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	02/21/2017	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	02/21/2017	BC
Trichloroethene (TCE)	0.258	1.38	0.200	1.07		EPA-TO-15	02/21/2017	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1702171
Project: MVSC

Client Sample ID: SYS-021417
Lab ID: 1702171-001A
Sample Type: Summa Canister

Date Sampled: 2/14/2017
Date Received: 2/15/2017

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.742	4.17	0.300	1.69		EPA-TO-15	02/21/2017	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	02/21/2017	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	02/21/2017	BC
Surr: 4-Bromofluorobenzene	92.9 %Rec	--	70-130	--		EPA-TO-15	02/21/2017	BC

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R34570** SampType: **LCS** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **LCSW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659876**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	5.73	0.500	5.000	0	115	70	130				
Dichlorodifluoromethane (CFC-12)	4.21	0.300	5.000	0	84.2	70	130				
Chloromethane	5.43	0.500	5.000	0	109	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.85	0.500	5.000	0	96.9	70	130				
Vinyl chloride	5.49	0.200	5.000	0	110	70	130				
1,3-Butadiene	5.83	0.500	5.000	0	117	70	130				
Bromomethane	4.94	0.500	5.000	0	98.8	70	130				
Trichlorofluoromethane (CFC-11)	4.24	0.300	5.000	0	84.9	70	130				
Chloroethane	5.17	0.500	5.000	0	103	70	130				
Acrolein	5.90	0.500	5.000	0	118	70	130				
1,1-Dichloroethene (DCE)	5.06	0.200	5.000	0	101	70	130				
Acetone	5.06	1.00	5.000	0	101	70	130				
Isopropyl Alcohol	5.37	1.00	5.000	0	107	70	130				
Methylene chloride	5.35	1.50	5.000	0	107	70	130				
Carbon disulfide	5.21	1.50	5.000	0	104	70	130				
trans-1,2-Dichloroethene	5.34	0.200	5.000	0	107	70	130				
Methyl tert-butyl ether (MTBE)	5.42	0.200	5.000	0	108	70	130				
Hexane	5.52	0.200	5.000	0	110	70	130				
1,1-Dichloroethane	4.91	0.200	5.000	0	98.3	70	130				
Vinyl acetate	6.03	1.00	5.000	0	121	70	130				
cis-1,2-Dichloroethene	5.35	0.200	5.000	0	107	70	130				
(MEK) 2-Butanone	6.06	0.500	5.000	0	121	70	130				
Ethyl acetate	5.43	1.00	5.000	0	109	70	130				
Chloroform	4.59	0.200	5.000	0	91.8	70	130				
Tetrahydrofuran	5.97	0.500	5.000	0	119	70	130				
1,1,1-Trichloroethane	4.45	0.200	5.000	0	89.0	70	130				
Carbon tetrachloride	4.41	0.200	5.000	0	88.3	70	130				
1,2-Dichloroethane	4.44	0.200	5.000	0	88.9	70	130				
Benzene	5.35	0.200	5.000	0	107	70	130				
Cyclohexane	5.63	0.200	5.000	0	113	70	130				
Trichloroethene (TCE)	4.96	0.200	5.000	0	99.2	70	130				

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R34570** SampType: **LCS** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **LCSW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659876**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	5.49	0.500	5.000	0	110	70	130				
Methyl methacrylate	5.78	0.300	5.000	0	116	70	130				
Dichlorobromomethane	4.66	0.300	5.000	0	93.2	70	130				
1,4-Dioxane	5.45	1.00	5.000	0	109	70	130				
cis-1,3-dichloropropene	5.61	0.500	5.000	0	112	70	130				
Toluene	6.41	0.200	5.000	0	128	70	130				
trans-1,3-dichloropropene	5.75	0.500	5.000	0	115	70	130				
1,1,2-Trichloroethane (TCA)	5.22	0.500	5.000	0	104	70	130				
Tetrachloroethene (PCE)	5.91	0.300	5.000	0	118	70	130				
Dibromochloromethane	5.24	0.500	5.000	0	105	70	130				
1,2-Dibromoethane (EDB)	5.86	0.200	5.000	0	117	70	130				
Chlorobenzene	5.00	0.200	5.000	0	99.9	70	130				
Ethylbenzene	5.70	0.300	5.000	0	114	70	130				
m,p-Xylene	10.4	0.200	10.00	0	104	70	130				
o-Xylene	4.95	0.200	5.000	0	99.1	70	130				
Styrene	5.73	0.300	5.000	0	115	70	130				
Bromoform	4.58	0.200	5.000	0	91.7	70	130				
1,1,2,2-Tetrachloroethane	5.21	0.300	5.000	0	104	70	130				
1,3,5-Trimethylbenzene	4.16	0.300	5.000	0	83.3	70	130				
1,2,4-Trimethylbenzene	4.47	0.300	5.000	0	89.4	70	130				
Benzyl chloride	4.60	0.500	5.000	0	92.1	70	130				
4-Ethyltoluene	4.55	0.300	5.000	0	91.0	70	130				
1,3-Dichlorobenzene	4.32	0.300	5.000	0	86.4	70	130				
1,4-Dichlorobenzene	4.43	0.300	5.000	0	88.5	70	130				
1,2-Dichlorobenzene	4.29	0.500	5.000	0	85.7	70	130				
1,2,4-Trichlorobenzene	5.01	0.300	5.000	0	100	70	130				
Hexachlorobutadiene	4.41	1.00	5.000	0	88.1	70	130				
Naphthalene	4.96	0.300	5.000	0	99.2	70	130				
2-Hexanone	6.91	1.00	5.000	0	138	70	130				S
4-Methyl-2-pentanone (MIBK)	4.79	1.00	5.000	0	95.8	70	130				
CFC-113	4.14	0.500	5.000	0	82.9	70	130				

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R34570** SampType: **LCS** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **LCSW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659876**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.57	0.500	5.000	0	91.3	70	130				
Surr: 4-Bromofluorobenzene	9.14		10.00		91.4	70	130				

NOTES:
S - Outlying spike recovery observed (high bias). Samples are non-detect for this analyte; no further action required.

Sample ID **MB-R34570** SampType: **MBLK** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **MBLKW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659877**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R34570** SampType: **MBLK** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **MBLKW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659877**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R34570** SampType: **MBLK** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **MBLKW** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659877**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.26		10.00		92.6	70	130				

Sample ID **1702223-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **BATCH** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659875**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	10.3	0.500						10.98	5.98	30	
Dichlorodifluoromethane (CFC-12)	0.348	0.300						0.3526	1.34	30	
Chloromethane	3.33	0.500						3.160	5.29	30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	0.462	0.300						0.4944	6.78	30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	8.16	1.00						8.098	0.714	30	
Isopropyl Alcohol	5.92	1.00						6.226	5.12	30	
Methylene chloride	3.49	1.50						0.9260	116	30	R

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1702223-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **BATCH** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659875**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
Hexane	ND	0.200						0		30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	ND	0.200						0		30	
(MEK) 2-Butanone	ND	0.500						0		30	
Ethyl acetate	2.06	1.00						2.171	5.29	30	
Chloroform	0.394	0.200						0.4300	8.84	30	
Tetrahydrofuran	ND	0.500						0		30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	0.248	0.200						0.2466	0.364	30	
Cyclohexane	ND	0.200						0		30	
Trichloroethene (TCE)	0.613	0.200						0.6482	5.65	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	1.68	0.200						1.748	4.12	30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	12.9	0.300						13.47	4.25	30	
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	ND	0.300						0		30	
m,p-Xylene	0.371	0.200						0.3778	1.74	30	

Work Order: 1702171
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1702223-003AREP** SampType: **REP** Units: **ppbv** Prep Date: **2/21/2017** RunNo: **34570**
Client ID: **BATCH** Batch ID: **R34570** Analysis Date: **2/21/2017** SeqNo: **659875**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	ND	0.200						0		30	
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	ND	0.300						0		30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	9.90		10.00		99.0	70	130		0		

NOTES:
R - High RPD observed. The method is in control as indicated by the LCS.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1702171**
Logged by:	**Clare Griggs**	Date Received:	**2/15/2017 2:15:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Laboratory Project No (Internal): 1702171

Date: 2-14-17 Page: 1 of: 1

Client: PES Environmental Inc
Address: 1215 4th Ave Ste 1350
City, State, Zip: Seattle, WA 98161
Telephone: 206-529-3980 Fax: 206-529-3985

Project Name: MUSC
Project No: 1358.001.01.007 Collected by: K. Springstead
Location: Normandy Park, WA
Reports To (PM): Matt Dahl
Email (PM): MDahl@pesenv.com

* Gas Matrix Codes: I = Indoor SS = Subslab L = Landfill SG = Soil Gas M = Plume Mapping Q = Fuel Gas Quality L = LEED (Consult Client Services)

** Container Codes: 6L = Six Liter Canister (Summa) TB = Tedlar Bag BV = 1 Liter Bottle Vac MC = 1 Liter MiniCan HP = High Pressure Cylinder HJ = Glass Headspace Jar

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Gas Matrix Code *	Anticipated Fill Time	Sample Volume	Container Type **	Internal: Evacuation Pressure (mtorr)	Internal: Pressure at Time of Pick-up (" Hg)	Internal: Equipment Certificaton Code	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-021417	17236 /	2-14-17 / 1100	SG		6L	6L	Pressure / Date	Pressure / Date/Time	Container / Regulator	30 / 1059	4 / 1100	TO-15	2/15	-4
4		Canister / Flow Reg	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
4		Canister / Flow Reg	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
4		Canister / Flow Reg	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			
5		Canister / Flow Reg	Date / Time					Pressure / Date	Pressure / Date/Time	Container / Regulator	Pressure / Time	Pressure / Time			

Condition:

Seals Intact: Y N N/A

Turn-around times for samples received after 4:00pm will begin on the following business day.

Special Remarks:

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	2-15-17/1415	x	2/15/17 1415
Relinquished	Date/Time	Received	Date/Time
x		x	

TAT --> (STD) Rush (specify)

MEMORANDUM

TO: Project File **DATE:** April 3, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: February 14, 2017 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1702171

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on February 14, 2017. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1702171.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15 was performed within seven days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate/Replicate Analyses

A laboratory duplicate was performed on a non-client sample within the analytical batch. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD) with the following exceptions:

> Methylene chloride RPD was greater than laboratory acceptance criteria (30%). No action was taken since this exceedance is associated with a non-client sample and not representative of sample collected from the site. The remainder of the VOC T0-15 compound RPDs for the non-client sample met laboratory acceptance criteria.

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air sample, method blank, duplicate/replicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130% with one exception:

> LCS spike compound, 2-hexanone, % R was elevated at 138% and above control limit criteria. No action was taken since 2-hexanone was not detected in the associated sample.

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1703123

March 17, 2017

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 3/10/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *03/17/2017*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1703123

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1703123-001	SYS-0317	03/10/2017 9:15 AM	03/10/2017 11:38 AM

Case Narrative

WO#: **1703123**
Date: **3/17/2017**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: PES Environmental, Inc.
WorkOrder: 1703123
Project: MVSC

Client Sample ID: SYS-0317
Lab ID: 1703123-001A
Sample Type: Summa Canister

Date Sampled: 3/10/2017
Date Received: 3/10/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	03/13/2017	BC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	03/13/2017	BC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	03/13/2017	BC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	03/13/2017	BC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	03/13/2017	BC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/13/2017	BC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	03/13/2017	BC
1,2,4-Trimethylbenzene	1.29	6.35	0.300	1.47		EPA-TO-15	03/13/2017	BC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	03/13/2017	BC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	03/13/2017	BC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	03/13/2017	BC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	03/13/2017	BC
1,3,5-Trimethylbenzene	<0.300	<1.47	0.300	1.47		EPA-TO-15	03/13/2017	BC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	03/13/2017	BC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	03/13/2017	BC
1,4-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	03/13/2017	BC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	03/13/2017	BC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	03/13/2017	BC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	03/13/2017	BC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	03/13/2017	BC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	03/13/2017	BC
Acetone	<1.00	<2.38	1.00	2.38		EPA-TO-15	03/13/2017	BC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	03/13/2017	BC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	03/13/2017	BC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	03/13/2017	BC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	03/13/2017	BC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	03/13/2017	BC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	03/13/2017	BC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	03/13/2017	BC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	03/13/2017	BC

Client: PES Environmental, Inc.
WorkOrder: 1703123
Project: MVSC

Client Sample ID: SYS-0317
Lab ID: 1703123-001A
Sample Type: Summa Canister

Date Sampled: 3/10/2017
Date Received: 3/10/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	03/13/2017	BC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	03/13/2017	BC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	03/13/2017	BC
Chloroform	0.644	3.14	0.200	0.977		EPA-TO-15	03/13/2017	BC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	03/13/2017	BC
cis-1,2-Dichloroethene	0.294	1.16	0.200	0.793		EPA-TO-15	03/13/2017	BC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/13/2017	BC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	03/13/2017	BC
Dichlorodifluoromethane (CFC-12)	0.585	2.89	0.300	1.48		EPA-TO-15	03/13/2017	BC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	03/13/2017	BC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	03/13/2017	BC
Ethylbenzene	0.677	2.94	0.300	1.30		EPA-TO-15	03/13/2017	BC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	03/13/2017	BC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	03/13/2017	BC
m,p-Xylene	2.78	12.1	0.200	0.868		EPA-TO-15	03/13/2017	BC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	03/13/2017	BC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	03/13/2017	BC
Naphthalene	<0.300	<1.57	0.300	1.57		EPA-TO-15	03/13/2017	BC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	03/13/2017	BC
o-Xylene	1.03	4.48	0.200	0.868		EPA-TO-15	03/13/2017	BC
4-Ethyltoluene	0.336	1.65	0.300	1.47		EPA-TO-15	03/13/2017	BC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	03/13/2017	BC
Styrene	<0.300	<1.28	0.300	1.28		EPA-TO-15	03/13/2017	BC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	03/13/2017	BC
Tetrachloroethene (PCE)	40.5	275	4.80	32.6		EPA-TO-15	03/13/2017	BC
Tetrahydrofuran	2.30	6.79	0.500	1.47		EPA-TO-15	03/13/2017	BC
Toluene	1.83	6.89	0.200	0.754		EPA-TO-15	03/13/2017	BC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	03/13/2017	BC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	03/13/2017	BC
Trichloroethene (TCE)	0.210	1.13	0.200	1.07		EPA-TO-15	03/13/2017	BC

Client: **PES Environmental, Inc.**
WorkOrder: 1703123
Project: MVSC

Client Sample ID: SYS-0317
Lab ID: 1703123-001A
Sample Type: Summa Canister

Date Sampled: 3/10/2017
Date Received: 3/10/2017

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.659	3.70	0.300	1.69		EPA-TO-15	03/13/2017	BC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	03/13/2017	BC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	03/13/2017	BC
Surr: 4-Bromofluorobenzene	96.9 %Rec	--	70-130	--		EPA-TO-15	03/13/2017	BC

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R34910** SampType: **LCS** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **LCSW** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666610**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	5.75	0.500	5.000	0	115	70	130				
Dichlorodifluoromethane (CFC-12)	3.51	0.300	5.000	0	70.3	70	130				
Chloromethane	5.52	0.500	5.000	0	110	70	130				
Dichlorotetrafluoroethane (CFC-114)	4.40	0.500	5.000	0	88.0	70	130				
Vinyl chloride	5.31	0.200	5.000	0	106	70	130				
1,3-Butadiene	5.50	0.500	5.000	0	110	70	130				
Bromomethane	4.60	0.500	5.000	0	91.9	70	130				
Trichlorofluoromethane (CFC-11)	3.65	0.300	5.000	0	73.1	70	130				
Chloroethane	5.17	0.500	5.000	0	103	70	130				
Acrolein	5.65	0.500	5.000	0	113	70	130				
1,1-Dichloroethene (DCE)	4.63	0.200	5.000	0	92.6	70	130				
Acetone	4.49	1.00	5.000	0	89.8	70	130				
Isopropyl Alcohol	5.11	1.00	5.000	0	102	70	130				
Methylene chloride	5.26	1.50	5.000	0	105	70	130				
Carbon disulfide	5.10	1.50	5.000	0	102	70	130				
trans-1,2-Dichloroethene	4.82	0.200	5.000	0	96.4	70	130				
Methyl tert-butyl ether (MTBE)	4.80	0.200	5.000	0	96.0	70	130				
n-Hexane	5.73	0.200	5.000	0	115	70	130				
1,1-Dichloroethane	4.68	0.200	5.000	0	93.5	70	130				
Vinyl acetate	5.52	1.00	5.000	0	110	70	130				
cis-1,2-Dichloroethene	5.02	0.200	5.000	0	100	70	130				
(MEK) 2-Butanone	6.15	0.500	5.000	0	123	70	130				
Ethyl acetate	5.98	1.00	5.000	0	120	70	130				
Chloroform	4.18	0.200	5.000	0	83.5	70	130				
Tetrahydrofuran	6.27	0.500	5.000	0	125	70	130				
1,1,1-Trichloroethane	3.95	0.200	5.000	0	79.0	70	130				
Carbon tetrachloride	3.80	0.200	5.000	0	76.1	70	130				
1,2-Dichloroethane	3.79	0.200	5.000	0	75.8	70	130				
Benzene	5.79	0.200	5.000	0	116	70	130				
Cyclohexane	5.79	0.200	5.000	0	116	70	130				
Trichloroethene (TCE)	4.70	0.200	5.000	0	94.0	70	130				

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R34910** SampType: **LCS** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **LCSW** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666610**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	5.63	0.500	5.000	0	113	70	130				
Methyl methacrylate	5.69	0.300	5.000	0	114	70	130				
Dichlorobromomethane	4.17	0.300	5.000	0	83.5	70	130				
1,4-Dioxane	4.95	1.00	5.000	0	99.1	70	130				
cis-1,3-dichloropropene	5.40	0.500	5.000	0	108	70	130				
Toluene	5.59	0.200	5.000	0	112	70	130				
trans-1,3-dichloropropene	5.03	0.500	5.000	0	101	70	130				
1,1,2-Trichloroethane (TCA)	4.87	0.500	5.000	0	97.5	70	130				
Tetrachloroethene (PCE)	5.08	0.300	5.000	0	102	70	130				
Dibromochloromethane	4.25	0.500	5.000	0	84.9	70	130				
1,2-Dibromoethane (EDB)	4.65	0.200	5.000	0	92.9	70	130				
Chlorobenzene	4.45	0.200	5.000	0	89.0	70	130				
Ethylbenzene	5.20	0.300	5.000	0	104	70	130				
m,p-Xylene	9.02	0.200	10.00	0	90.2	70	130				
o-Xylene	4.63	0.200	5.000	0	92.6	70	130				
Styrene	5.21	0.300	5.000	0	104	70	130				
Bromoform	4.18	0.200	5.000	0	83.6	70	130				
1,1,2,2-Tetrachloroethane	4.79	0.300	5.000	0	95.8	70	130				
1,3,5-Trimethylbenzene	4.41	0.300	5.000	0	88.1	70	130				
1,2,4-Trimethylbenzene	4.13	0.300	5.000	0	82.7	70	130				
Benzyl chloride	4.38	0.500	5.000	0	87.5	70	130				
4-Ethyltoluene	4.46	0.300	5.000	0	89.2	70	130				
1,3-Dichlorobenzene	4.16	0.300	5.000	0	83.2	70	130				
1,4-Dichlorobenzene	4.25	0.300	5.000	0	85.0	70	130				
1,2-Dichlorobenzene	4.10	0.500	5.000	0	82.1	70	130				
1,2,4-Trichlorobenzene	5.05	0.300	5.000	0	101	70	130				
Hexachlorobutadiene	3.99	1.00	5.000	0	79.8	70	130				
Naphthalene	5.03	0.300	5.000	0	101	70	130				
2-Hexanone	6.11	1.00	5.000	0	122	70	130				
4-Methyl-2-pentanone (MIBK)	5.08	1.00	5.000	0	102	70	130				
CFC-113	3.74	0.500	5.000	0	74.7	70	130				

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID	**LCS-R34910**	SampType: **LCS**		Units: **ppbv**		Prep Date: **3/13/2017**		RunNo: **34910**			
Client ID:	**LCSW**	Batch ID: **R34910**				Analysis Date: **3/13/2017**		SeqNo: **666610**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	4.94	0.500	5.000	0	98.9	70	130				
Surr: 4-Bromofluorobenzene	9.28		10.00		92.8	70	130				

Sample ID	**MB-R34910**	SampType: **MBLK**		Units: **ppbv**		Prep Date: **3/13/2017**		RunNo: **34910**			
Client ID:	**MBLKW**	Batch ID: **R34910**				Analysis Date: **3/13/2017**		SeqNo: **666611**			
Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
n-Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									
Ethyl acetate	ND	1.00									

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R34910**	SampType: **MBLK**	Units: **ppbv**	Prep Date: **3/13/2017**	RunNo: **34910**	
Client ID: **MBLKW**	Batch ID: **R34910**		Analysis Date: **3/13/2017**	SeqNo: **666611**	

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									
1,3-Dichlorobenzene	ND	0.300									

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R34910** SampType: **MBLK** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **MBLKW** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666611**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.21		10.00		92.1	70	130				

Sample ID **1703065-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **BATCH** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666609**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500						0		30	
Dichlorodifluoromethane (CFC-12)	ND	0.300						0		30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	ND	0.300						0		30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	15.0	1.00						14.80	1.11	30	
Isopropyl Alcohol	1.32	1.00						1.276	3.67	30	
Methylene chloride	ND	1.50						0		30	
Carbon disulfide	ND	1.50						0		30	

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1703065-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **BATCH** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666609**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
n-Hexane	4.46	0.200						4.396	1.34	30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	1.83	0.200						1.884	3.07	30	
(MEK) 2-Butanone	ND	0.500						0		30	
Ethyl acetate	ND	1.00						0		30	
Chloroform	0.592	0.200						0.6118	3.36	30	
Tetrahydrofuran	ND	0.500						0		30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	0.406	0.200						0.4050	0.296	30	
Cyclohexane	1.78	0.200						1.698	4.79	30	
Trichloroethene (TCE)	2.87	0.200						2.739	4.56	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	0.202	0.200						0.2050	1.67	30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	5.09	0.300						4.721	7.63	30	
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	ND	0.300						0		30	
m,p-Xylene	ND	0.200						0		30	
o-Xylene	ND	0.200						0		30	

Work Order: 1703123
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1703065-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **3/13/2017** RunNo: **34910**
Client ID: **BATCH** Batch ID: **R34910** Analysis Date: **3/13/2017** SeqNo: **666609**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	ND	0.300						0		30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	ND	0.300						0		30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	ND	0.300						0		30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	ND	0.300						0		30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	0.587	0.500						0.6096	3.76	30	
Surr: 4-Bromofluorobenzene	9.33		10.00		93.3	70	130		0		

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1703123**
Logged by:	**Clare Griggs**	Date Received:	**3/10/2017 11:38:00 AM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 3-10-17 Page: 1 of: 1

Laboratory Project No (Internal): 1703123

Special Remarks:

Project Name: MVSC

Project No: 1358.001.01.007

Location: NORMANDY PARK, WA

Collected by: KARSTEN SPRINGSTEAD

Reports to (PM): MATT DAHL

Email (PM): MDAHL@PESENV.COM

Client: PES Environmental, Inc.

Address: 1215 4TH AVE STE 1350

City, State, Zip: SEATTLE, WA 98161

Telephone: 206-529-3980

Fax: 206-529-3985

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Sample Volume	Fill Time	Flow Rate	Internal: Initial Evacuation Pressure (mtorr)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-0317	17244 Canister / Flow Reg.	3-10-17 Date / 915 Time	S	CAN	6L	Grab		10 mTorr Pressure / 3/1/17 15:00 Date	30 Pressure / 914 Time	4 Pressure / 915 Time	TO-15	3/10/17	4
2		Canister / Flow Reg.	Date / Time						Pressure / Date	Pressure / Time	Pressure / Time			
3		Canister / Flow Reg.	Date / Time						Pressure / Date	Pressure / Time	Pressure / Time			
4		Canister / Flow Reg.	Date / Time						Pressure / Date	Pressure / Time	Pressure / Time			
5		Canister / Flow Reg.	Date / Time						Pressure / Date	Pressure / Time	Pressure / Time			

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	3-10-17/1138	x	3/10/17 11:38
x		x	

Turn-Around Time:

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

MEMORANDUM

TO: Project File **DATE:** April 3, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: March 10, 2017 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1703123

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on March 10, 2017. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1703123.

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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, 2016).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15 was performed within three days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate/Replicate Analyses

A laboratory duplicate was performed on a non-client sample within the analytical batch. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD). .

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air sample, method blank, duplicate/replicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130%. .

Matrix Spike/Matrix Spike Duplicates

A MS/MSD is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and µg/m^3. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

No data qualifiers were assigned. All data are judged to be acceptable for their intended use.

ANALYTICAL REPORT

April 05, 2017

PES Environmental, Inc.- WA

Sample Delivery Group:	L896931
Samples Received:	03/18/2017
Project Number:	1358.001.01
Description:	MVSC
Site:	MVSC
Report To:	Matt Dahl 1215 Fourth Ave., Suite 1350 Seattle, WA 98161

Entire Report Reviewed By:

Brian Ford

Technical Service Representative

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 ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.



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MW-2-031317 L896931-01 GW

Collected by: Karsten Springstead | Collected date/time: 03/13/17 12:00 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/27/17 13:43	03/27/17 13:43	JAH

MW-3-031317 L896931-02 GW

Collected by: Karsten Springstead | Collected date/time: 03/13/17 13:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 16:48	03/22/17 16:48	BMB

MW-12-031317 L896931-03 GW

Collected by: Karsten Springstead | Collected date/time: 03/13/17 14:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 17:08	03/22/17 17:08	BMB

MW-9-031317 L896931-04 GW

Collected by: Karsten Springstead | Collected date/time: 03/13/17 15:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 17:29	03/22/17 17:29	BMB

MW-4-031417 L896931-05 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 08:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 17:50	03/22/17 17:50	BMB

MW-13-031417 L896931-06 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 09:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 18:11	03/22/17 18:11	BMB

KMW-3-031417 L896931-07 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 09:55 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 18:32	03/22/17 18:32	BMB

MW-15-031417 L896931-08 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 11:20 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 18:53	03/22/17 18:53	BMB

DC-3-031417 L896931-09 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 12:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 19:13	03/22/17 19:13	BMB

DC-4-031417 L896931-10 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 13:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 19:34	03/22/17 19:34	BMB

MW-14-031417 L896931-11 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 14:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 19:54	03/22/17 19:54	BMB

MW-10-031417 L896931-12 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 15:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 20:15	03/22/17 20:15	BMB

KMW-2-031417 L896931-13 GW

Collected by: Karsten Springstead | Collected date/time: 03/14/17 16:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 20:36	03/22/17 20:36	BMB

DC-11-031517 L896931-14 GW

Collected by: Karsten Springstead | Collected date/time: 03/15/17 10:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 20:56	03/22/17 20:56	BMB

MW-11-031617 L896931-15 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 14:05 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 21:17	03/22/17 21:17	BMB

DC-14-031617 L896931-16 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 13:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 21:38	03/22/17 21:38	BMB

DC-18-031617 L896931-17 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 12:35 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/22/17 21:59	03/22/17 21:59	BMB

MW-16-031617 L896931-18 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 12:00 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962336	1	03/27/17 14:06	03/27/17 14:06	JAH

DC-8-031617 L896931-19 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 10:50 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 14:29	03/27/17 14:29	JAH

DC-15-031617 L896931-20 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 10:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 13:20	03/27/17 13:20	JAH

DC-15-031617-D L896931-21 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 10:20 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 01:18	03/27/17 01:18	JAH

KMW-7-031617 L896931-22 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 09:10 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 01:40	03/27/17 01:40	JAH

KMW-8-031617 L896931-23 GW

Collected by: Karsten Springstead | Collected date/time: 03/16/17 08:20 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 02:03	03/27/17 02:03	JAH

DC-13-031517 L896931-24 GW

Collected by: Karsten Springstead | Collected date/time: 03/15/17 12:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 02:26	03/27/17 02:26	JAH

DC-20-031517 L896931-25 GW

Collected by: Karsten Springstead | Collected date/time: 03/15/17 11:45 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 02:49	03/27/17 02:49	JAH

DC-12-031517 L896931-26 GW

Collected by: Karsten Springstead | Collected date/time: 03/15/17 11:00 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 03:12	03/27/17 03:12	JAH

KMW-9-031517 L896931-27 GW

Collected by: Karsten Springstead | Collected date/time: 03/15/17 09:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 03:35	03/27/17 03:35	JAH

MW-7-031717 L896931-28 GW

Collected by: Karsten Springstead | Collected date/time: 03/17/17 07:15 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 03:58	03/27/17 03:58	JAH

MW-100-031717 L896931-29 GW

Collected by: Karsten Springstead | Collected date/time: 03/17/17 07:30 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 04:21	03/27/17 04:21	JAH

DC-10A-031717 L896931-30 GW

Collected by: Karsten Springstead | Collected date/time: 03/17/17 08:45 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 04:45	03/27/17 04:45	JAH

DC-7-031717 L896931-31 GW

Collected by: Karsten Springstead | Collected date/time: 03/17/17 10:00 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 05:08	03/27/17 05:08	JAH

DC-17-031717 L896931-32 GW

Collected by: Karsten Springstead | Collected date/time: 03/17/17 11:00 | Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 05:31	03/27/17 05:31	JAH

EQ-031717 L896931-33 GW

Collected by: Karsten Springstead
Collected date/time: 03/17/17 11:20
Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 05:54	03/27/17 05:54	JAH

W-DRUM-031717 L896931-34 GW

Collected by: Karsten Springstead
Collected date/time: 03/17/17 12:00
Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG962372	1	03/27/17 06:17	03/27/17 06:17	JAH

TRIP BLANK L896931-35 GW

Collected by: Karsten Springstead
Collected date/time: 03/17/17 00:00
Received date/time: 03/18/17 09:00

Method	Batch	Dilution	Preparation date/time	Analysis date/time	Analyst
Volatile Organic Compounds (GC/MS) by Method 8260C	WG964137	1	03/31/17 17:56	03/31/17 17:56	LRL
Volatile Organic Compounds (GC/MS) by Method 8260C	WG964137	1	03/31/17 19:12	03/31/17 19:12	LRL

All sample aliquots were received at the correct temperature, in the proper containers, with the appropriate preservatives, and within method specified holding times. 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
Technical Service Representative

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 13:43	WG962336
Acrolein	ND		50.0	1	03/27/2017 13:43	WG962336
Acrylonitrile	ND		10.0	1	03/27/2017 13:43	WG962336
Benzene	ND		1.00	1	03/27/2017 13:43	WG962336
Bromobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Bromodichloromethane	ND		1.00	1	03/27/2017 13:43	WG962336
Bromoform	ND		1.00	1	03/27/2017 13:43	WG962336
Bromomethane	ND		5.00	1	03/27/2017 13:43	WG962336
n-Butylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
sec-Butylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
tert-Butylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Carbon tetrachloride	ND		1.00	1	03/27/2017 13:43	WG962336
Chlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Chlorodibromomethane	ND		1.00	1	03/27/2017 13:43	WG962336
Chloroethane	ND		5.00	1	03/27/2017 13:43	WG962336
Chloroform	ND		5.00	1	03/27/2017 13:43	WG962336
Chloromethane	ND		2.50	1	03/27/2017 13:43	WG962336
2-Chlorotoluene	ND		1.00	1	03/27/2017 13:43	WG962336
4-Chlorotoluene	ND		1.00	1	03/27/2017 13:43	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 13:43	WG962336
1,2-Dibromoethane	ND		1.00	1	03/27/2017 13:43	WG962336
Dibromomethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/27/2017 13:43	WG962336
1,1-Dichloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,2-Dichloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,1-Dichloroethene	ND		1.00	1	03/27/2017 13:43	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 13:43	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 13:43	WG962336
1,2-Dichloropropane	ND		1.00	1	03/27/2017 13:43	WG962336
1,1-Dichloropropene	ND		1.00	1	03/27/2017 13:43	WG962336
1,3-Dichloropropane	ND		1.00	1	03/27/2017 13:43	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 13:43	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 13:43	WG962336
2,2-Dichloropropane	ND		1.00	1	03/27/2017 13:43	WG962336
Di-isopropyl ether	ND		1.00	1	03/27/2017 13:43	WG962336
Ethylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 13:43	WG962336
Isopropylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
p-Isopropyltoluene	ND		1.00	1	03/27/2017 13:43	WG962336
2-Butanone (MEK)	ND		10.0	1	03/27/2017 13:43	WG962336
Methylene Chloride	ND		5.00	1	03/27/2017 13:43	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 13:43	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 13:43	WG962336
Naphthalene	ND		5.00	1	03/27/2017 13:43	WG962336
n-Propylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Styrene	ND		1.00	1	03/27/2017 13:43	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 13:43	WG962336
Tetrachloroethene	6.02		1.00	1	03/27/2017 13:43	WG962336
Toluene	ND		1.00	1	03/27/2017 13:43	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 13:43	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 13:43	WG962336
Trichloroethene	ND		1.00	1	03/27/2017 13:43	WG962336
Trichlorofluoromethane	ND		5.00	1	03/27/2017 13:43	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 13:43	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 13:43	WG962336
Vinyl chloride	ND		1.00	1	03/27/2017 13:43	WG962336
Xylenes, Total	ND		3.00	1	03/27/2017 13:43	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 13:43*	WG962336
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 13:43*	WG962336
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 13:43*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 16:48	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 16:48	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 16:48	WG962336
Benzene	ND		1.00	1	03/22/2017 16:48	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 16:48	WG962336
Bromoform	ND		1.00	1	03/22/2017 16:48	WG962336
Bromomethane	ND		5.00	1	03/22/2017 16:48	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 16:48	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 16:48	WG962336
Chloroethane	ND		5.00	1	03/22/2017 16:48	WG962336
Chloroform	ND		5.00	1	03/22/2017 16:48	WG962336
Chloromethane	ND		2.50	1	03/22/2017 16:48	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 16:48	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 16:48	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 16:48	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 16:48	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 16:48	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 16:48	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 16:48	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 16:48	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 16:48	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 16:48	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 16:48	WG962336
Naphthalene	ND		5.00	1	03/22/2017 16:48	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Styrene	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 16:48	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
Toluene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 16:48	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 16:48	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 16:48	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 16:48	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 16:48*	WG962336
(S) Dibromofluoromethane	*96.9*		*76.0-123*		*03/22/2017 16:48*	WG962336
(S) 4-Bromofluorobenzene	*98.4*		*80.0-120*		*03/22/2017 16:48*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 17:08	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 17:08	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 17:08	WG962336
Benzene	ND		1.00	1	03/22/2017 17:08	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 17:08	WG962336
Bromoform	ND		1.00	1	03/22/2017 17:08	WG962336
Bromomethane	ND		5.00	1	03/22/2017 17:08	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 17:08	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 17:08	WG962336
Chloroethane	ND		5.00	1	03/22/2017 17:08	WG962336
Chloroform	ND		5.00	1	03/22/2017 17:08	WG962336
Chloromethane	ND		2.50	1	03/22/2017 17:08	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 17:08	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 17:08	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 17:08	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 17:08	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 17:08	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 17:08	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 17:08	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 17:08	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 17:08	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 17:08	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 17:08	WG962336
Naphthalene	ND		5.00	1	03/22/2017 17:08	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Styrene	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 17:08	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
Toluene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:08	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:08	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:08	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:08	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 17:08*	WG962336
(S) Dibromofluoromethane	*97.0*		*76.0-123*		*03/22/2017 17:08*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 17:08*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 17:29	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 17:29	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 17:29	WG962336
Benzene	ND		1.00	1	03/22/2017 17:29	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 17:29	WG962336
Bromoform	ND		1.00	1	03/22/2017 17:29	WG962336
Bromomethane	ND		5.00	1	03/22/2017 17:29	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 17:29	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 17:29	WG962336
Chloroethane	ND		5.00	1	03/22/2017 17:29	WG962336
Chloroform	ND		5.00	1	03/22/2017 17:29	WG962336
Chloromethane	ND		2.50	1	03/22/2017 17:29	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 17:29	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 17:29	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 17:29	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 17:29	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 17:29	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 17:29	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:29	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:29	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 17:29	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 17:29	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 17:29	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 17:29	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 17:29	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 17:29	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 17:29	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 17:29	WG962336
Naphthalene	ND		5.00	1	03/22/2017 17:29	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Styrene	ND		1.00	1	03/22/2017 17:29	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 17:29	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
Toluene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 17:29	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:29	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:29	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:29	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:29	WG962336
(S) Toluene-d8	*99.9*		*80.0-120*		*03/22/2017 17:29*	WG962336
(S) Dibromofluoromethane	*95.9*		*76.0-123*		*03/22/2017 17:29*	WG962336
(S) 4-Bromofluorobenzene	*96.4*		*80.0-120*		*03/22/2017 17:29*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 17:50	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 17:50	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 17:50	WG962336
Benzene	ND		1.00	1	03/22/2017 17:50	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 17:50	WG962336
Bromoform	ND		1.00	1	03/22/2017 17:50	WG962336
Bromomethane	ND		5.00	1	03/22/2017 17:50	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 17:50	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 17:50	WG962336
Chloroethane	ND		5.00	1	03/22/2017 17:50	WG962336
Chloroform	ND		5.00	1	03/22/2017 17:50	WG962336
Chloromethane	ND		2.50	1	03/22/2017 17:50	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 17:50	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 17:50	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 17:50	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 17:50	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 17:50	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 17:50	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 17:50	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 17:50	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 17:50	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 17:50	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 17:50	WG962336
Naphthalene	ND		5.00	1	03/22/2017 17:50	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Styrene	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 17:50	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
Toluene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:50	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:50	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:50	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:50	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 17:50*	WG962336
(S) Dibromofluoromethane	*102*		*76.0-123*		*03/22/2017 17:50*	WG962336
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/22/2017 17:50*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 18:11	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 18:11	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 18:11	WG962336
Benzene	ND		1.00	1	03/22/2017 18:11	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 18:11	WG962336
Bromoform	ND		1.00	1	03/22/2017 18:11	WG962336
Bromomethane	ND		5.00	1	03/22/2017 18:11	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 18:11	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 18:11	WG962336
Chloroethane	ND		5.00	1	03/22/2017 18:11	WG962336
Chloroform	ND		5.00	1	03/22/2017 18:11	WG962336
Chloromethane	ND		2.50	1	03/22/2017 18:11	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 18:11	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 18:11	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 18:11	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 18:11	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 18:11	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 18:11	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:11	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:11	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 18:11	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 18:11	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 18:11	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 18:11	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 18:11	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 18:11	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 18:11	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 18:11	WG962336
Naphthalene	ND		5.00	1	03/22/2017 18:11	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Styrene	ND		1.00	1	03/22/2017 18:11	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 18:11	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
Toluene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 18:11	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:11	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:11	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:11	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:11	WG962336
(S) Toluene-d8	*103*		*80.0-120*		*03/22/2017 18:11*	WG962336
(S) Dibromofluoromethane	*93.5*		*76.0-123*		*03/22/2017 18:11*	WG962336
(S) 4-Bromofluorobenzene	*99.0*		*80.0-120*		*03/22/2017 18:11*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 18:32	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 18:32	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 18:32	WG962336
Benzene	ND		1.00	1	03/22/2017 18:32	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 18:32	WG962336
Bromoform	ND		1.00	1	03/22/2017 18:32	WG962336
Bromomethane	ND		5.00	1	03/22/2017 18:32	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 18:32	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 18:32	WG962336
Chloroethane	ND		5.00	1	03/22/2017 18:32	WG962336
Chloroform	ND		5.00	1	03/22/2017 18:32	WG962336
Chloromethane	ND		2.50	1	03/22/2017 18:32	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 18:32	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 18:32	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 18:32	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 18:32	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 18:32	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 18:32	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 18:32	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 18:32	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 18:32	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 18:32	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 18:32	WG962336
Naphthalene	ND		5.00	1	03/22/2017 18:32	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Styrene	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 18:32	WG962336
Tetrachloroethene	3.23		1.00	1	03/22/2017 18:32	WG962336
Toluene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:32	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:32	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:32	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:32	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 18:32*	WG962336
(S) Dibromofluoromethane	*95.9*		*76.0-123*		*03/22/2017 18:32*	WG962336
(S) 4-Bromofluorobenzene	*97.7*		*80.0-120*		*03/22/2017 18:32*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 18:53	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 18:53	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 18:53	WG962336
Benzene	ND		1.00	1	03/22/2017 18:53	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 18:53	WG962336
Bromoform	ND		1.00	1	03/22/2017 18:53	WG962336
Bromomethane	ND		5.00	1	03/22/2017 18:53	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 18:53	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 18:53	WG962336
Chloroethane	ND		5.00	1	03/22/2017 18:53	WG962336
Chloroform	ND		5.00	1	03/22/2017 18:53	WG962336
Chloromethane	ND		2.50	1	03/22/2017 18:53	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 18:53	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 18:53	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 18:53	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 18:53	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 18:53	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 18:53	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:53	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:53	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 18:53	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 18:53	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 18:53	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 18:53	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 18:53	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 18:53	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 18:53	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 18:53	WG962336
Naphthalene	ND		5.00	1	03/22/2017 18:53	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Styrene	ND		1.00	1	03/22/2017 18:53	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 18:53	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
Toluene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 18:53	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:53	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:53	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:53	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:53	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 18:53*	WG962336
(S) Dibromofluoromethane	*97.4*		*76.0-123*		*03/22/2017 18:53*	WG962336
(S) 4-Bromofluorobenzene	*98.2*		*80.0-120*		*03/22/2017 18:53*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 19:13	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 19:13	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 19:13	WG962336
Benzene	ND		1.00	1	03/22/2017 19:13	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 19:13	WG962336
Bromoform	ND		1.00	1	03/22/2017 19:13	WG962336
Bromomethane	ND		5.00	1	03/22/2017 19:13	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 19:13	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 19:13	WG962336
Chloroethane	ND		5.00	1	03/22/2017 19:13	WG962336
Chloroform	ND		5.00	1	03/22/2017 19:13	WG962336
Chloromethane	ND		2.50	1	03/22/2017 19:13	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 19:13	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 19:13	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 19:13	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 19:13	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 19:13	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:13	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 19:13	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 19:13	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:13	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:13	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 19:13	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 19:13	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 19:13	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 19:13	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 19:13	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 19:13	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 19:13	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 19:13	WG962336
Naphthalene	ND		5.00	1	03/22/2017 19:13	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Styrene	ND		1.00	1	03/22/2017 19:13	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 19:13	WG962336
Tetrachloroethene	2.11		1.00	1	03/22/2017 19:13	WG962336
Toluene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 19:13	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:13	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:13	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:13	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:13	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:13	WG962336
(S) Toluene-d8	*103*		*80.0-120*		*03/22/2017 19:13*	WG962336
(S) Dibromofluoromethane	*99.6*		*76.0-123*		*03/22/2017 19:13*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 19:13*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 19:34	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 19:34	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 19:34	WG962336
Benzene	ND		1.00	1	03/22/2017 19:34	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 19:34	WG962336
Bromoform	ND		1.00	1	03/22/2017 19:34	WG962336
Bromomethane	ND		5.00	1	03/22/2017 19:34	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 19:34	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 19:34	WG962336
Chloroethane	ND		5.00	1	03/22/2017 19:34	WG962336
Chloroform	ND		5.00	1	03/22/2017 19:34	WG962336
Chloromethane	ND		2.50	1	03/22/2017 19:34	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 19:34	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 19:34	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 19:34	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 19:34	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 19:34	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 19:34	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:34	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:34	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 19:34	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 19:34	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 19:34	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 19:34	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 19:34	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 19:34	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 19:34	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 19:34	WG962336
Naphthalene	ND		5.00	1	03/22/2017 19:34	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Styrene	ND		1.00	1	03/22/2017 19:34	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 19:34	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
Toluene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 19:34	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:34	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:34	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:34	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:34	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 19:34*	WG962336
(S) Dibromofluoromethane	*96.2*		*76.0-123*		*03/22/2017 19:34*	WG962336
(S) 4-Bromofluorobenzene	*93.2*		*80.0-120*		*03/22/2017 19:34*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 19:54	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 19:54	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 19:54	WG962336
Benzene	ND		1.00	1	03/22/2017 19:54	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 19:54	WG962336
Bromoform	ND		1.00	1	03/22/2017 19:54	WG962336
Bromomethane	ND		5.00	1	03/22/2017 19:54	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 19:54	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 19:54	WG962336
Chloroethane	ND		5.00	1	03/22/2017 19:54	WG962336
Chloroform	ND		5.00	1	03/22/2017 19:54	WG962336
Chloromethane	ND		2.50	1	03/22/2017 19:54	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 19:54	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 19:54	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 19:54	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 19:54	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 19:54	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 19:54	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 19:54	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 19:54	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 19:54	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 19:54	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 19:54	WG962336
Naphthalene	ND		5.00	1	03/22/2017 19:54	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Styrene	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 19:54	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
Toluene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:54	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:54	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:54	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:54	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 19:54*	WG962336
(S) Dibromofluoromethane	*99.2*		*76.0-123*		*03/22/2017 19:54*	WG962336
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/22/2017 19:54*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 20:15	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 20:15	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:15	WG962336
Benzene	ND		1.00	1	03/22/2017 20:15	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:15	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:15	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:15	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:15	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:15	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:15	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:15	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:15	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:15	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:15	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:15	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:15	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:15	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:15	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:15	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:15	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:15	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:15	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:15	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:15	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Styrene	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:15	WG962336
Tetrachloroethene	1.09		1.00	1	03/22/2017 20:15	WG962336
Toluene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:15	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:15	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:15	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:15	WG962336
(S) Toluene-d8	*100*		*80.0-120*		*03/22/2017 20:15*	WG962336
(S) Dibromofluoromethane	*93.3*		*76.0-123*		*03/22/2017 20:15*	WG962336
(S) 4-Bromofluorobenzene	*93.0*		*80.0-120*		*03/22/2017 20:15*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 20:36	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 20:36	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:36	WG962336
Benzene	ND		1.00	1	03/22/2017 20:36	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:36	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:36	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:36	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:36	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:36	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:36	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:36	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:36	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:36	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:36	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:36	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:36	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:36	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:36	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:36	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:36	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:36	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:36	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:36	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:36	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Styrene	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:36	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
Toluene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:36	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:36	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:36	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:36	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 20:36*	WG962336
(S) Dibromofluoromethane	*98.4*		*76.0-123*		*03/22/2017 20:36*	WG962336
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*03/22/2017 20:36*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 20:56	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 20:56	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:56	WG962336
Benzene	ND		1.00	1	03/22/2017 20:56	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:56	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:56	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:56	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:56	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:56	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:56	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:56	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:56	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:56	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:56	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:56	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:56	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:56	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:56	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:56	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:56	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:56	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:56	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:56	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:56	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Styrene	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:56	WG962336
Tetrachloroethene	1.97		1.00	1	03/22/2017 20:56	WG962336
Toluene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:56	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:56	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:56	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:56	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 20:56*	WG962336
(S) Dibromofluoromethane	*96.4*		*76.0-123*		*03/22/2017 20:56*	WG962336
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*03/22/2017 20:56*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 21:17	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 21:17	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 21:17	WG962336
Benzene	ND		1.00	1	03/22/2017 21:17	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 21:17	WG962336
Bromoform	ND		1.00	1	03/22/2017 21:17	WG962336
Bromomethane	ND		5.00	1	03/22/2017 21:17	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 21:17	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 21:17	WG962336
Chloroethane	ND		5.00	1	03/22/2017 21:17	WG962336
Chloroform	ND		5.00	1	03/22/2017 21:17	WG962336
Chloromethane	ND		2.50	1	03/22/2017 21:17	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 21:17	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 21:17	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 21:17	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 21:17	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 21:17	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 21:17	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 21:17	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 21:17	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 21:17	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 21:17	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 21:17	WG962336
Naphthalene	ND		5.00	1	03/22/2017 21:17	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Styrene	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 21:17	WG962336
Tetrachloroethene	4.66		1.00	1	03/22/2017 21:17	WG962336
Toluene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 21:17	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 21:17	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 21:17	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 21:17	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 21:17*	WG962336
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/22/2017 21:17*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 21:17*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 21:38	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 21:38	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 21:38	WG962336
Benzene	ND		1.00	1	03/22/2017 21:38	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 21:38	WG962336
Bromoform	ND		1.00	1	03/22/2017 21:38	WG962336
Bromomethane	ND		5.00	1	03/22/2017 21:38	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 21:38	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 21:38	WG962336
Chloroethane	ND		5.00	1	03/22/2017 21:38	WG962336
Chloroform	ND		5.00	1	03/22/2017 21:38	WG962336
Chloromethane	ND		2.50	1	03/22/2017 21:38	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 21:38	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 21:38	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 21:38	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 21:38	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 21:38	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 21:38	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 21:38	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 21:38	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 21:38	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 21:38	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 21:38	WG962336
Naphthalene	ND		5.00	1	03/22/2017 21:38	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Styrene	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 21:38	WG962336
Tetrachloroethene	6.20		1.00	1	03/22/2017 21:38	WG962336
Toluene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 21:38	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 21:38	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 21:38	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 21:38	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 21:38*	WG962336
(S) Dibromofluoromethane	*96.1*		*76.0-123*		*03/22/2017 21:38*	WG962336
(S) 4-Bromofluorobenzene	*99.0*		*80.0-120*		*03/22/2017 21:38*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	J0	50.0	1	03/22/2017 21:59	WG962336
Acrolein	ND	J0	50.0	1	03/22/2017 21:59	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 21:59	WG962336
Benzene	ND		1.00	1	03/22/2017 21:59	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 21:59	WG962336
Bromoform	ND		1.00	1	03/22/2017 21:59	WG962336
Bromomethane	ND		5.00	1	03/22/2017 21:59	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 21:59	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 21:59	WG962336
Chloroethane	ND		5.00	1	03/22/2017 21:59	WG962336
Chloroform	ND		5.00	1	03/22/2017 21:59	WG962336
Chloromethane	ND		2.50	1	03/22/2017 21:59	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 21:59	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 21:59	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 21:59	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 21:59	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 21:59	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 21:59	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:59	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:59	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 21:59	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 21:59	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 21:59	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:59	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:59	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 21:59	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 21:59	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 21:59	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 21:59	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 21:59	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 21:59	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 21:59	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 21:59	WG962336
Naphthalene	ND		5.00	1	03/22/2017 21:59	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Styrene	ND		1.00	1	03/22/2017 21:59	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 21:59	WG962336
Tetrachloroethene	3.24		1.00	1	03/22/2017 21:59	WG962336
Toluene	ND		1.00	1	03/22/2017 21:59	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 21:59	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 21:59	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 21:59	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 21:59	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 21:59	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 21:59	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 21:59	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 21:59	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 21:59*	WG962336
(S) Dibromofluoromethane	*96.0*		*76.0-123*		*03/22/2017 21:59*	WG962336
(S) 4-Bromofluorobenzene	*96.9*		*80.0-120*		*03/22/2017 21:59*	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND		50.0	1	03/27/2017 14:06	WG962336
Acrolein	ND		50.0	1	03/27/2017 14:06	WG962336
Acrylonitrile	ND		10.0	1	03/27/2017 14:06	WG962336
Benzene	ND		1.00	1	03/27/2017 14:06	WG962336
Bromobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Bromodichloromethane	ND		1.00	1	03/27/2017 14:06	WG962336
Bromoform	ND		1.00	1	03/27/2017 14:06	WG962336
Bromomethane	ND		5.00	1	03/27/2017 14:06	WG962336
n-Butylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
sec-Butylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
tert-Butylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Carbon tetrachloride	ND		1.00	1	03/27/2017 14:06	WG962336
Chlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Chlorodibromomethane	ND		1.00	1	03/27/2017 14:06	WG962336
Chloroethane	ND		5.00	1	03/27/2017 14:06	WG962336
Chloroform	ND		5.00	1	03/27/2017 14:06	WG962336
Chloromethane	ND		2.50	1	03/27/2017 14:06	WG962336
2-Chlorotoluene	ND		1.00	1	03/27/2017 14:06	WG962336
4-Chlorotoluene	ND		1.00	1	03/27/2017 14:06	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 14:06	WG962336
1,2-Dibromoethane	ND		1.00	1	03/27/2017 14:06	WG962336
Dibromomethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/27/2017 14:06	WG962336
1,1-Dichloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,2-Dichloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,1-Dichloroethene	ND		1.00	1	03/27/2017 14:06	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 14:06	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 14:06	WG962336
1,2-Dichloropropane	ND		1.00	1	03/27/2017 14:06	WG962336
1,1-Dichloropropene	ND		1.00	1	03/27/2017 14:06	WG962336
1,3-Dichloropropane	ND		1.00	1	03/27/2017 14:06	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 14:06	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 14:06	WG962336
2,2-Dichloropropane	ND		1.00	1	03/27/2017 14:06	WG962336
Di-isopropyl ether	ND		1.00	1	03/27/2017 14:06	WG962336
Ethylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 14:06	WG962336
Isopropylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
p-Isopropyltoluene	ND		1.00	1	03/27/2017 14:06	WG962336
2-Butanone (MEK)	ND		10.0	1	03/27/2017 14:06	WG962336
Methylene Chloride	ND		5.00	1	03/27/2017 14:06	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 14:06	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 14:06	WG962336
Naphthalene	ND		5.00	1	03/27/2017 14:06	WG962336
n-Propylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Styrene	ND		1.00	1	03/27/2017 14:06	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 14:06	WG962336
Tetrachloroethene	1.13		1.00	1	03/27/2017 14:06	WG962336
Toluene	ND		1.00	1	03/27/2017 14:06	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 14:06	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 14:06	WG962336
Trichloroethene	ND		1.00	1	03/27/2017 14:06	WG962336
Trichlorofluoromethane	ND		5.00	1	03/27/2017 14:06	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 14:06	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 14:06	WG962336
Vinyl chloride	ND		1.00	1	03/27/2017 14:06	WG962336
Xylenes, Total	ND		3.00	1	03/27/2017 14:06	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 14:06*	WG962336
(S) Dibromofluoromethane	*103*		*76.0-123*		*03/27/2017 14:06*	WG962336
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/27/2017 14:06*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 14:29	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 14:29	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 14:29	WG962372
Benzene	ND		1.00	1	03/27/2017 14:29	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 14:29	WG962372
Bromoform	ND		1.00	1	03/27/2017 14:29	WG962372
Bromomethane	ND		5.00	1	03/27/2017 14:29	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 14:29	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 14:29	WG962372
Chloroethane	ND		5.00	1	03/27/2017 14:29	WG962372
Chloroform	ND		5.00	1	03/27/2017 14:29	WG962372
Chloromethane	ND		2.50	1	03/27/2017 14:29	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 14:29	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 14:29	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 14:29	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 14:29	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 14:29	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 14:29	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 14:29	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 14:29	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 14:29	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 14:29	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 14:29	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 14:29	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 14:29	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 14:29	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 14:29	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 14:29	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 14:29	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 14:29	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 14:29	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 14:29	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 14:29	WG962372
Naphthalene	ND		5.00	1	03/27/2017 14:29	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Styrene	ND		1.00	1	03/27/2017 14:29	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 14:29	WG962372
Tetrachloroethene	9.69		1.00	1	03/27/2017 14:29	WG962372
Toluene	ND		1.00	1	03/27/2017 14:29	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 14:29	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 14:29	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 14:29	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 14:29	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 14:29	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 14:29	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 14:29	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 14:29	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 14:29*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 14:29*	WG962372
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/27/2017 14:29*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 13:20	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 13:20	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 13:20	WG962372
Benzene	ND		1.00	1	03/27/2017 13:20	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 13:20	WG962372
Bromoform	ND		1.00	1	03/27/2017 13:20	WG962372
Bromomethane	ND		5.00	1	03/27/2017 13:20	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 13:20	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 13:20	WG962372
Chloroethane	ND		5.00	1	03/27/2017 13:20	WG962372
Chloroform	ND		5.00	1	03/27/2017 13:20	WG962372
Chloromethane	ND		2.50	1	03/27/2017 13:20	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 13:20	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 13:20	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 13:20	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 13:20	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 13:20	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 13:20	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 13:20	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 13:20	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 13:20	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 13:20	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 13:20	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 13:20	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 13:20	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 13:20	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 13:20	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 13:20	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 13:20	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 13:20	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 13:20	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 13:20	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 13:20	WG962372
Naphthalene	ND		5.00	1	03/27/2017 13:20	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Styrene	ND		1.00	1	03/27/2017 13:20	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 13:20	WG962372
Tetrachloroethene	8.96		1.00	1	03/27/2017 13:20	WG962372
Toluene	ND		1.00	1	03/27/2017 13:20	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 13:20	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 13:20	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 13:20	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 13:20	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 13:20	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 13:20	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 13:20	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 13:20	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 13:20*	WG962372
(S) Dibromofluoromethane	*103*		*76.0-123*		*03/27/2017 13:20*	WG962372
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 13:20*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 01:18	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 01:18	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 01:18	WG962372
Benzene	ND		1.00	1	03/27/2017 01:18	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 01:18	WG962372
Bromoform	ND		1.00	1	03/27/2017 01:18	WG962372
Bromomethane	ND		5.00	1	03/27/2017 01:18	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 01:18	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 01:18	WG962372
Chloroethane	ND		5.00	1	03/27/2017 01:18	WG962372
Chloroform	ND		5.00	1	03/27/2017 01:18	WG962372
Chloromethane	ND		2.50	1	03/27/2017 01:18	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 01:18	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 01:18	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 01:18	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 01:18	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 01:18	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 01:18	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 01:18	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 01:18	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 01:18	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 01:18	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 01:18	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 01:18	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 01:18	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 01:18	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 01:18	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 01:18	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 01:18	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 01:18	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 01:18	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 01:18	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 01:18	WG962372
Naphthalene	ND		5.00	1	03/27/2017 01:18	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Styrene	ND		1.00	1	03/27/2017 01:18	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 01:18	WG962372
Tetrachloroethene	9.02		1.00	1	03/27/2017 01:18	WG962372
Toluene	ND		1.00	1	03/27/2017 01:18	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 01:18	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 01:18	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 01:18	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 01:18	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 01:18	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 01:18	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 01:18	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 01:18	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 01:18*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 01:18*	WG962372
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/27/2017 01:18*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 01:40	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 01:40	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 01:40	WG962372
Benzene	ND		1.00	1	03/27/2017 01:40	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 01:40	WG962372
Bromoform	ND		1.00	1	03/27/2017 01:40	WG962372
Bromomethane	ND		5.00	1	03/27/2017 01:40	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 01:40	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 01:40	WG962372
Chloroethane	ND		5.00	1	03/27/2017 01:40	WG962372
Chloroform	ND		5.00	1	03/27/2017 01:40	WG962372
Chloromethane	ND		2.50	1	03/27/2017 01:40	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 01:40	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 01:40	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 01:40	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 01:40	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 01:40	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 01:40	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 01:40	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 01:40	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 01:40	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 01:40	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 01:40	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 01:40	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 01:40	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 01:40	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 01:40	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 01:40	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 01:40	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 01:40	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 01:40	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 01:40	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 01:40	WG962372
Naphthalene	ND		5.00	1	03/27/2017 01:40	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Styrene	ND		1.00	1	03/27/2017 01:40	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 01:40	WG962372
Tetrachloroethene	1.17		1.00	1	03/27/2017 01:40	WG962372
Toluene	ND		1.00	1	03/27/2017 01:40	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 01:40	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 01:40	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 01:40	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 01:40	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 01:40	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 01:40	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 01:40	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 01:40	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 01:40*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 01:40*	WG962372
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 01:40*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 02:03	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 02:03	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 02:03	WG962372
Benzene	ND		1.00	1	03/27/2017 02:03	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 02:03	WG962372
Bromoform	ND		1.00	1	03/27/2017 02:03	WG962372
Bromomethane	ND		5.00	1	03/27/2017 02:03	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 02:03	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 02:03	WG962372
Chloroethane	ND		5.00	1	03/27/2017 02:03	WG962372
Chloroform	ND		5.00	1	03/27/2017 02:03	WG962372
Chloromethane	ND		2.50	1	03/27/2017 02:03	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 02:03	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 02:03	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 02:03	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 02:03	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 02:03	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 02:03	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:03	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:03	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 02:03	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 02:03	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 02:03	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:03	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:03	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 02:03	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 02:03	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 02:03	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 02:03	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 02:03	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 02:03	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 02:03	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 02:03	WG962372
Naphthalene	ND		5.00	1	03/27/2017 02:03	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Styrene	ND		1.00	1	03/27/2017 02:03	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 02:03	WG962372
Tetrachloroethene	6.71		1.00	1	03/27/2017 02:03	WG962372
Toluene	ND		1.00	1	03/27/2017 02:03	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 02:03	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 02:03	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 02:03	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 02:03	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 02:03	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 02:03	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 02:03	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 02:03	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 02:03*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 02:03*	WG962372
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 02:03*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 02:26	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 02:26	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 02:26	WG962372
Benzene	ND		1.00	1	03/27/2017 02:26	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 02:26	WG962372
Bromoform	ND		1.00	1	03/27/2017 02:26	WG962372
Bromomethane	ND		5.00	1	03/27/2017 02:26	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 02:26	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 02:26	WG962372
Chloroethane	ND		5.00	1	03/27/2017 02:26	WG962372
Chloroform	ND		5.00	1	03/27/2017 02:26	WG962372
Chloromethane	ND		2.50	1	03/27/2017 02:26	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 02:26	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 02:26	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 02:26	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 02:26	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 02:26	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 02:26	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:26	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:26	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 02:26	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 02:26	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 02:26	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:26	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:26	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 02:26	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 02:26	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 02:26	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 02:26	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 02:26	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 02:26	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 02:26	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 02:26	WG962372
Naphthalene	ND		5.00	1	03/27/2017 02:26	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Styrene	ND		1.00	1	03/27/2017 02:26	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 02:26	WG962372
Tetrachloroethene	4.32		1.00	1	03/27/2017 02:26	WG962372
Toluene	ND		1.00	1	03/27/2017 02:26	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 02:26	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 02:26	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 02:26	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 02:26	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 02:26	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 02:26	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 02:26	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 02:26	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 02:26*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 02:26*	WG962372
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/27/2017 02:26*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 02:49	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 02:49	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 02:49	WG962372
Benzene	ND		1.00	1	03/27/2017 02:49	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 02:49	WG962372
Bromoform	ND		1.00	1	03/27/2017 02:49	WG962372
Bromomethane	ND		5.00	1	03/27/2017 02:49	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 02:49	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 02:49	WG962372
Chloroethane	ND		5.00	1	03/27/2017 02:49	WG962372
Chloroform	ND		5.00	1	03/27/2017 02:49	WG962372
Chloromethane	ND		2.50	1	03/27/2017 02:49	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 02:49	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 02:49	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 02:49	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 02:49	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 02:49	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 02:49	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:49	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 02:49	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 02:49	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 02:49	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 02:49	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:49	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 02:49	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 02:49	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 02:49	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 02:49	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 02:49	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 02:49	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 02:49	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 02:49	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 02:49	WG962372
Naphthalene	ND		5.00	1	03/27/2017 02:49	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Styrene	ND		1.00	1	03/27/2017 02:49	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 02:49	WG962372
Tetrachloroethene	2.00		1.00	1	03/27/2017 02:49	WG962372
Toluene	ND		1.00	1	03/27/2017 02:49	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 02:49	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 02:49	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 02:49	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 02:49	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 02:49	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 02:49	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 02:49	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 02:49	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 02:49*	WG962372
(S) Dibromofluoromethane	*103*		*76.0-123*		*03/27/2017 02:49*	WG962372
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/27/2017 02:49*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 03:12	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 03:12	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 03:12	WG962372
Benzene	ND		1.00	1	03/27/2017 03:12	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 03:12	WG962372
Bromoform	ND		1.00	1	03/27/2017 03:12	WG962372
Bromomethane	ND		5.00	1	03/27/2017 03:12	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 03:12	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 03:12	WG962372
Chloroethane	ND		5.00	1	03/27/2017 03:12	WG962372
Chloroform	ND		5.00	1	03/27/2017 03:12	WG962372
Chloromethane	ND		2.50	1	03/27/2017 03:12	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 03:12	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 03:12	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 03:12	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 03:12	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 03:12	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 03:12	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:12	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:12	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 03:12	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 03:12	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 03:12	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:12	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:12	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 03:12	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 03:12	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 03:12	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 03:12	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 03:12	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 03:12	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 03:12	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 03:12	WG962372
Naphthalene	ND		5.00	1	03/27/2017 03:12	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Styrene	ND		1.00	1	03/27/2017 03:12	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 03:12	WG962372
Tetrachloroethene	2.02		1.00	1	03/27/2017 03:12	WG962372
Toluene	ND		1.00	1	03/27/2017 03:12	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 03:12	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 03:12	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 03:12	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 03:12	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 03:12	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 03:12	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 03:12	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 03:12	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 03:12*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 03:12*	WG962372
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 03:12*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 03:35	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 03:35	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 03:35	WG962372
Benzene	ND		1.00	1	03/27/2017 03:35	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 03:35	WG962372
Bromoform	ND		1.00	1	03/27/2017 03:35	WG962372
Bromomethane	ND		5.00	1	03/27/2017 03:35	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 03:35	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 03:35	WG962372
Chloroethane	ND		5.00	1	03/27/2017 03:35	WG962372
Chloroform	ND		5.00	1	03/27/2017 03:35	WG962372
Chloromethane	ND		2.50	1	03/27/2017 03:35	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 03:35	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 03:35	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 03:35	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 03:35	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 03:35	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 03:35	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:35	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:35	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 03:35	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 03:35	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 03:35	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:35	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:35	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 03:35	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 03:35	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 03:35	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 03:35	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 03:35	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 03:35	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 03:35	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 03:35	WG962372
Naphthalene	ND		5.00	1	03/27/2017 03:35	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Styrene	ND		1.00	1	03/27/2017 03:35	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 03:35	WG962372
Tetrachloroethene	2.07		1.00	1	03/27/2017 03:35	WG962372
Toluene	ND		1.00	1	03/27/2017 03:35	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 03:35	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 03:35	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 03:35	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 03:35	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 03:35	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 03:35	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 03:35	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 03:35	WG962372
(S) Toluene-d8	*101*		*80.0-120*		*03/27/2017 03:35*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 03:35*	WG962372
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/27/2017 03:35*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 03:58	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 03:58	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 03:58	WG962372
Benzene	ND		1.00	1	03/27/2017 03:58	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 03:58	WG962372
Bromoform	ND		1.00	1	03/27/2017 03:58	WG962372
Bromomethane	ND		5.00	1	03/27/2017 03:58	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 03:58	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 03:58	WG962372
Chloroethane	ND		5.00	1	03/27/2017 03:58	WG962372
Chloroform	ND		5.00	1	03/27/2017 03:58	WG962372
Chloromethane	ND		2.50	1	03/27/2017 03:58	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 03:58	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 03:58	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 03:58	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 03:58	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 03:58	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 03:58	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:58	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 03:58	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 03:58	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 03:58	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 03:58	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:58	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 03:58	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 03:58	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 03:58	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 03:58	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 03:58	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 03:58	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 03:58	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 03:58	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 03:58	WG962372
Naphthalene	ND		5.00	1	03/27/2017 03:58	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Styrene	ND		1.00	1	03/27/2017 03:58	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 03:58	WG962372
Tetrachloroethene	8.08		1.00	1	03/27/2017 03:58	WG962372
Toluene	ND		1.00	1	03/27/2017 03:58	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 03:58	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 03:58	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 03:58	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 03:58	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 03:58	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 03:58	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 03:58	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 03:58	WG962372
(S) Toluene-d8	*101*		*80.0-120*		*03/27/2017 03:58*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 03:58*	WG962372
(S) 4-Bromofluorobenzene	*102*		*80.0-120*		*03/27/2017 03:58*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 04:21	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 04:21	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 04:21	WG962372
Benzene	ND		1.00	1	03/27/2017 04:21	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 04:21	WG962372
Bromoform	ND		1.00	1	03/27/2017 04:21	WG962372
Bromomethane	ND		5.00	1	03/27/2017 04:21	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 04:21	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 04:21	WG962372
Chloroethane	ND		5.00	1	03/27/2017 04:21	WG962372
Chloroform	ND		5.00	1	03/27/2017 04:21	WG962372
Chloromethane	ND		2.50	1	03/27/2017 04:21	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 04:21	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 04:21	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 04:21	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 04:21	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 04:21	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 04:21	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 04:21	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 04:21	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 04:21	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 04:21	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 04:21	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 04:21	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 04:21	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 04:21	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 04:21	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 04:21	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 04:21	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 04:21	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 04:21	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 04:21	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 04:21	WG962372
Naphthalene	ND		5.00	1	03/27/2017 04:21	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Styrene	ND		1.00	1	03/27/2017 04:21	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 04:21	WG962372
Tetrachloroethene	8.26		1.00	1	03/27/2017 04:21	WG962372
Toluene	ND		1.00	1	03/27/2017 04:21	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 04:21	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 04:21	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 04:21	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 04:21	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 04:21	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 04:21	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 04:21	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 04:21	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 04:21*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 04:21*	WG962372
(S) 4-Bromofluorobenzene	*103*		*80.0-120*		*03/27/2017 04:21*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 04:45	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 04:45	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 04:45	WG962372
Benzene	ND		1.00	1	03/27/2017 04:45	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 04:45	WG962372
Bromoform	ND		1.00	1	03/27/2017 04:45	WG962372
Bromomethane	ND		5.00	1	03/27/2017 04:45	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 04:45	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 04:45	WG962372
Chloroethane	ND		5.00	1	03/27/2017 04:45	WG962372
Chloroform	ND		5.00	1	03/27/2017 04:45	WG962372
Chloromethane	ND		2.50	1	03/27/2017 04:45	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 04:45	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 04:45	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 04:45	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 04:45	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 04:45	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 04:45	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 04:45	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 04:45	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 04:45	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 04:45	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 04:45	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 04:45	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 04:45	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 04:45	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 04:45	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 04:45	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 04:45	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 04:45	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 04:45	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 04:45	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 04:45	WG962372
Naphthalene	ND		5.00	1	03/27/2017 04:45	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Styrene	ND		1.00	1	03/27/2017 04:45	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 04:45	WG962372
Tetrachloroethene	8.62		1.00	1	03/27/2017 04:45	WG962372
Toluene	ND		1.00	1	03/27/2017 04:45	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 04:45	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 04:45	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 04:45	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 04:45	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 04:45	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 04:45	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 04:45	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 04:45	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 04:45*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 04:45*	WG962372
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/27/2017 04:45*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 05:08	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 05:08	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 05:08	WG962372
Benzene	ND		1.00	1	03/27/2017 05:08	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 05:08	WG962372
Bromoform	ND		1.00	1	03/27/2017 05:08	WG962372
Bromomethane	ND		5.00	1	03/27/2017 05:08	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 05:08	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 05:08	WG962372
Chloroethane	ND		5.00	1	03/27/2017 05:08	WG962372
Chloroform	ND		5.00	1	03/27/2017 05:08	WG962372
Chloromethane	ND		2.50	1	03/27/2017 05:08	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 05:08	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 05:08	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 05:08	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 05:08	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 05:08	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 05:08	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:08	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:08	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 05:08	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 05:08	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 05:08	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:08	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:08	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 05:08	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 05:08	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 05:08	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 05:08	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 05:08	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 05:08	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 05:08	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 05:08	WG962372
Naphthalene	ND		5.00	1	03/27/2017 05:08	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Styrene	ND		1.00	1	03/27/2017 05:08	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 05:08	WG962372
Tetrachloroethene	10.4		1.00	1	03/27/2017 05:08	WG962372
Toluene	ND		1.00	1	03/27/2017 05:08	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 05:08	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 05:08	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 05:08	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 05:08	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 05:08	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 05:08	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 05:08	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 05:08	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 05:08*	WG962372
(S) Dibromofluoromethane	*104*		*76.0-123*		*03/27/2017 05:08*	WG962372
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/27/2017 05:08*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 05:31	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 05:31	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 05:31	WG962372
Benzene	ND		1.00	1	03/27/2017 05:31	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 05:31	WG962372
Bromoform	ND		1.00	1	03/27/2017 05:31	WG962372
Bromomethane	ND		5.00	1	03/27/2017 05:31	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 05:31	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 05:31	WG962372
Chloroethane	ND		5.00	1	03/27/2017 05:31	WG962372
Chloroform	ND		5.00	1	03/27/2017 05:31	WG962372
Chloromethane	ND		2.50	1	03/27/2017 05:31	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 05:31	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 05:31	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 05:31	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 05:31	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 05:31	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 05:31	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:31	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:31	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 05:31	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 05:31	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 05:31	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:31	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:31	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 05:31	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 05:31	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 05:31	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 05:31	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 05:31	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 05:31	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 05:31	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 05:31	WG962372
Naphthalene	ND		5.00	1	03/27/2017 05:31	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Styrene	ND		1.00	1	03/27/2017 05:31	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 05:31	WG962372
Tetrachloroethene	13.9		1.00	1	03/27/2017 05:31	WG962372
Toluene	ND		1.00	1	03/27/2017 05:31	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 05:31	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 05:31	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 05:31	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 05:31	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 05:31	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 05:31	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 05:31	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 05:31	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 05:31*	WG962372
(S) Dibromofluoromethane	*103*		*76.0-123*		*03/27/2017 05:31*	WG962372
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/27/2017 05:31*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 05:54	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 05:54	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 05:54	WG962372
Benzene	ND		1.00	1	03/27/2017 05:54	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 05:54	WG962372
Bromoform	ND		1.00	1	03/27/2017 05:54	WG962372
Bromomethane	ND		5.00	1	03/27/2017 05:54	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 05:54	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 05:54	WG962372
Chloroethane	ND		5.00	1	03/27/2017 05:54	WG962372
Chloroform	ND		5.00	1	03/27/2017 05:54	WG962372
Chloromethane	ND		2.50	1	03/27/2017 05:54	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 05:54	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 05:54	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 05:54	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 05:54	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 05:54	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 05:54	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:54	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 05:54	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 05:54	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 05:54	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 05:54	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:54	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 05:54	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 05:54	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 05:54	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 05:54	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
p-Isopropyltoluene	ND		1.00	1	03/27/2017 05:54	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 05:54	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 05:54	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 05:54	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 05:54	WG962372
Naphthalene	ND		5.00	1	03/27/2017 05:54	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Styrene	ND		1.00	1	03/27/2017 05:54	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 05:54	WG962372
Tetrachloroethene	ND		1.00	1	03/27/2017 05:54	WG962372
Toluene	ND		1.00	1	03/27/2017 05:54	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 05:54	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 05:54	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 05:54	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 05:54	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 05:54	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 05:54	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 05:54	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 05:54	WG962372
(S) Toluene-d8	*101*		*80.0-120*		*03/27/2017 05:54*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 05:54*	WG962372
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/27/2017 05:54*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/27/2017 06:17	WG962372
Acrolein	ND	J4	50.0	1	03/27/2017 06:17	WG962372
Acrylonitrile	ND		10.0	1	03/27/2017 06:17	WG962372
Benzene	ND		1.00	1	03/27/2017 06:17	WG962372
Bromobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Bromodichloromethane	ND		1.00	1	03/27/2017 06:17	WG962372
Bromoform	ND		1.00	1	03/27/2017 06:17	WG962372
Bromomethane	ND		5.00	1	03/27/2017 06:17	WG962372
n-Butylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
sec-Butylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
tert-Butylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Carbon tetrachloride	ND		1.00	1	03/27/2017 06:17	WG962372
Chlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Chlorodibromomethane	ND		1.00	1	03/27/2017 06:17	WG962372
Chloroethane	ND		5.00	1	03/27/2017 06:17	WG962372
Chloroform	ND		5.00	1	03/27/2017 06:17	WG962372
Chloromethane	ND		2.50	1	03/27/2017 06:17	WG962372
2-Chlorotoluene	ND		1.00	1	03/27/2017 06:17	WG962372
4-Chlorotoluene	ND		1.00	1	03/27/2017 06:17	WG962372
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/27/2017 06:17	WG962372
1,2-Dibromoethane	ND		1.00	1	03/27/2017 06:17	WG962372
Dibromomethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,2-Dichlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
1,3-Dichlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
1,4-Dichlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Dichlorodifluoromethane	ND	J4	5.00	1	03/27/2017 06:17	WG962372
1,1-Dichloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,2-Dichloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,1-Dichloroethene	ND		1.00	1	03/27/2017 06:17	WG962372
cis-1,2-Dichloroethene	ND		1.00	1	03/27/2017 06:17	WG962372
trans-1,2-Dichloroethene	ND		1.00	1	03/27/2017 06:17	WG962372
1,2-Dichloropropane	ND		1.00	1	03/27/2017 06:17	WG962372
1,1-Dichloropropene	ND		1.00	1	03/27/2017 06:17	WG962372
1,3-Dichloropropane	ND		1.00	1	03/27/2017 06:17	WG962372
cis-1,3-Dichloropropene	ND		1.00	1	03/27/2017 06:17	WG962372
trans-1,3-Dichloropropene	ND		1.00	1	03/27/2017 06:17	WG962372
2,2-Dichloropropane	ND		1.00	1	03/27/2017 06:17	WG962372
Di-isopropyl ether	ND		1.00	1	03/27/2017 06:17	WG962372
Ethylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Hexachloro-1,3-butadiene	ND		1.00	1	03/27/2017 06:17	WG962372
Isopropylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
p-Isopropyltoluene	1.40		1.00	1	03/27/2017 06:17	WG962372
2-Butanone (MEK)	ND		10.0	1	03/27/2017 06:17	WG962372
Methylene Chloride	ND		5.00	1	03/27/2017 06:17	WG962372
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/27/2017 06:17	WG962372
Methyl tert-butyl ether	ND		1.00	1	03/27/2017 06:17	WG962372
Naphthalene	ND		5.00	1	03/27/2017 06:17	WG962372
n-Propylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Styrene	ND		1.00	1	03/27/2017 06:17	WG962372
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/27/2017 06:17	WG962372
Tetrachloroethene	ND		1.00	1	03/27/2017 06:17	WG962372
Toluene	ND		1.00	1	03/27/2017 06:17	WG962372
1,2,3-Trichlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372
1,2,4-Trichlorobenzene	ND		1.00	1	03/27/2017 06:17	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
1,1,2-Trichloroethane	ND		1.00	1	03/27/2017 06:17	WG962372
Trichloroethene	ND		1.00	1	03/27/2017 06:17	WG962372
Trichlorofluoromethane	ND		5.00	1	03/27/2017 06:17	WG962372
1,2,3-Trichloropropane	ND		2.50	1	03/27/2017 06:17	WG962372
1,2,4-Trimethylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
1,2,3-Trimethylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
1,3,5-Trimethylbenzene	ND		1.00	1	03/27/2017 06:17	WG962372
Vinyl chloride	ND		1.00	1	03/27/2017 06:17	WG962372
Xylenes, Total	ND		3.00	1	03/27/2017 06:17	WG962372
(S) Toluene-d8	*102*		*80.0-120*		*03/27/2017 06:17*	WG962372
(S) Dibromofluoromethane	*105*		*76.0-123*		*03/27/2017 06:17*	WG962372
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/27/2017 06:17*	WG962372

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND		50.0	1	03/31/2017 19:12	WG964137
Acrolein	ND	J4	50.0	1	03/31/2017 19:12	WG964137
Acrylonitrile	ND		10.0	1	03/31/2017 19:12	WG964137
Benzene	ND		1.00	1	03/31/2017 17:56	WG964137
Bromobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Bromodichloromethane	ND		1.00	1	03/31/2017 17:56	WG964137
Bromoform	ND		1.00	1	03/31/2017 17:56	WG964137
Bromomethane	ND		5.00	1	03/31/2017 19:12	WG964137
n-Butylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
sec-Butylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
tert-Butylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Carbon tetrachloride	ND		1.00	1	03/31/2017 17:56	WG964137
Chlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Chlorodibromomethane	ND		1.00	1	03/31/2017 17:56	WG964137
Chloroethane	ND		5.00	1	03/31/2017 19:12	WG964137
Chloroform	ND		5.00	1	03/31/2017 17:56	WG964137
Chloromethane	ND		2.50	1	03/31/2017 19:12	WG964137
2-Chlorotoluene	ND		1.00	1	03/31/2017 17:56	WG964137
4-Chlorotoluene	ND		1.00	1	03/31/2017 17:56	WG964137
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/31/2017 17:56	WG964137
1,2-Dibromoethane	ND		1.00	1	03/31/2017 17:56	WG964137
Dibromomethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,2-Dichlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
1,3-Dichlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
1,4-Dichlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Dichlorodifluoromethane	ND		5.00	1	03/31/2017 17:56	WG964137
1,1-Dichloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,2-Dichloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,1-Dichloroethene	ND		1.00	1	03/31/2017 17:56	WG964137
cis-1,2-Dichloroethene	ND		1.00	1	03/31/2017 17:56	WG964137
trans-1,2-Dichloroethene	ND		1.00	1	03/31/2017 17:56	WG964137
1,2-Dichloropropane	ND		1.00	1	03/31/2017 17:56	WG964137
1,1-Dichloropropene	ND		1.00	1	03/31/2017 17:56	WG964137
1,3-Dichloropropane	ND		1.00	1	03/31/2017 17:56	WG964137
cis-1,3-Dichloropropene	ND		1.00	1	03/31/2017 17:56	WG964137
trans-1,3-Dichloropropene	ND		1.00	1	03/31/2017 17:56	WG964137
2,2-Dichloropropane	ND		1.00	1	03/31/2017 17:56	WG964137
Di-isopropyl ether	ND		1.00	1	03/31/2017 17:56	WG964137
Ethylbenzene	ND	J4	1.00	1	03/31/2017 17:56	WG964137
Hexachloro-1,3-butadiene	ND		1.00	1	03/31/2017 17:56	WG964137
Isopropylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
p-Isopropyltoluene	ND		1.00	1	03/31/2017 17:56	WG964137
2-Butanone (MEK)	ND		10.0	1	03/31/2017 17:56	WG964137
Methylene Chloride	ND		5.00	1	03/31/2017 17:56	WG964137
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/31/2017 17:56	WG964137
Methyl tert-butyl ether	ND		1.00	1	03/31/2017 17:56	WG964137
Naphthalene	ND		5.00	1	03/31/2017 17:56	WG964137
n-Propylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Styrene	ND		1.00	1	03/31/2017 17:56	WG964137
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/31/2017 17:56	WG964137
Tetrachloroethene	ND		1.00	1	03/31/2017 17:56	WG964137
Toluene	ND	J4	1.00	1	03/31/2017 17:56	WG964137
1,2,3-Trichlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137
1,2,4-Trichlorobenzene	ND		1.00	1	03/31/2017 17:56	WG964137

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
1,1,2-Trichloroethane	ND		1.00	1	03/31/2017 17:56	WG964137
Trichloroethene	ND		1.00	1	03/31/2017 17:56	WG964137
Trichlorofluoromethane	ND		5.00	1	03/31/2017 17:56	WG964137
1,2,3-Trichloropropane	ND		2.50	1	03/31/2017 17:56	WG964137
1,2,4-Trimethylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
1,2,3-Trimethylbenzene	ND	J4	1.00	1	03/31/2017 17:56	WG964137
1,3,5-Trimethylbenzene	ND		1.00	1	03/31/2017 17:56	WG964137
Vinyl chloride	ND		1.00	1	03/31/2017 17:56	WG964137
Xylenes, Total	ND		3.00	1	03/31/2017 17:56	WG964137
(S) Toluene-d8	*102*		*80.0-120*		*03/31/2017 19:12*	WG964137
(S) Toluene-d8	*107*		*80.0-120*		*03/31/2017 17:56*	WG964137
(S) Dibromofluoromethane	*97.4*		*76.0-123*		*03/31/2017 17:56*	WG964137
(S) Dibromofluoromethane	*97.5*		*76.0-123*		*03/31/2017 19:12*	WG964137
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*03/31/2017 17:56*	WG964137
(S) 4-Bromofluorobenzene	*104*		*80.0-120*		*03/31/2017 19:12*	WG964137

Method Blank (MB)

(MB) R3205158-3 03/22/17 14:15

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3205158-3 03/22/17 14:15

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*97.4*			*76.0-123*
(S) 4-Bromofluorobenzene	*99.8*			*80.0-120*

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

(LCS) R3205158-1 03/22/17 12:53 • (LCSD) R3205158-2 03/22/17 13:14

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	103	106	82.8	85.1	10.0-160			2.80	23
Acrolein	125	64.7	64.2	51.8	51.4	10.0-160			0.700	20
Acrylonitrile	125	117	120	93.6	96.2	60.0-142			2.70	20
Benzene	25.0	22.6	23.2	90.4	92.7	69.0-123			2.48	20

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

(LCS) R3205158-1 03/22/17 12:53 • (LCSD) R3205158-2 03/22/17 13:14

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	23.7	23.0	94.6	91.9	79.0-120			2.88	20
Bromodichloromethane	25.0	23.3	24.0	93.3	96.1	76.0-120			3.01	20
Bromoform	25.0	23.9	23.6	95.8	94.5	67.0-132			1.34	20
Bromomethane	25.0	25.2	23.9	101	95.7	18.0-160			5.23	20
n-Butylbenzene	25.0	22.9	23.8	91.6	95.3	72.0-126			4.01	20
sec-Butylbenzene	25.0	24.2	23.6	96.9	94.3	74.0-121			2.73	20
tert-Butylbenzene	25.0	24.9	24.1	99.5	96.6	75.0-122			2.93	20
Carbon tetrachloride	25.0	24.1	24.2	96.5	96.8	63.0-122			0.230	20
Chlorobenzene	25.0	23.4	23.6	93.5	94.3	79.0-121			0.880	20
Chlorodibromomethane	25.0	24.4	25.1	97.6	101	75.0-125			2.94	20
Chloroethane	25.0	24.4	25.1	97.7	101	47.0-152			2.92	20
Chloroform	25.0	23.3	24.1	93.3	96.2	72.0-121			3.11	20
Chloromethane	25.0	21.8	21.6	87.3	86.3	48.0-139			1.13	20
2-Chlorotoluene	25.0	24.0	24.2	96.2	96.8	74.0-122			0.630	20
4-Chlorotoluene	25.0	24.7	25.1	98.8	100	79.0-120			1.41	20
1,2-Dibromo-3-Chloropropane	25.0	23.2	25.3	92.7	101	64.0-127			8.87	20
1,2-Dibromoethane	25.0	22.5	23.3	89.9	93.1	77.0-123			3.45	20
Dibromomethane	25.0	22.7	24.5	90.6	98.1	78.0-120			7.91	20
1,2-Dichlorobenzene	25.0	22.6	24.4	90.6	97.6	80.0-120			7.46	20
1,3-Dichlorobenzene	25.0	24.3	23.8	97.2	95.3	72.0-123			1.93	20
1,4-Dichlorobenzene	25.0	21.0	22.7	83.9	90.9	77.0-120			7.98	20
Dichlorodifluoromethane	25.0	27.6	27.0	110	108	49.0-155			2.17	20
1,1-Dichloroethane	25.0	23.0	23.4	92.1	93.4	70.0-126			1.36	20
1,2-Dichloroethane	25.0	22.0	22.9	88.0	91.4	67.0-126			3.82	20
1,1-Dichloroethene	25.0	23.9	24.2	95.4	97.0	64.0-129			1.65	20
cis-1,2-Dichloroethene	25.0	23.3	24.0	93.1	96.1	73.0-120			3.16	20
trans-1,2-Dichloroethene	25.0	24.4	24.5	97.6	98.0	71.0-121			0.380	20
1,2-Dichloropropane	25.0	23.1	24.7	92.4	98.7	75.0-125			6.57	20
1,1-Dichloropropene	25.0	24.1	24.7	96.6	98.8	71.0-129			2.30	20
1,3-Dichloropropane	25.0	21.9	22.5	87.7	90.2	80.0-121			2.81	20
cis-1,3-Dichloropropene	25.0	25.3	26.4	101	105	79.0-123			4.28	20
trans-1,3-Dichloropropene	25.0	22.6	24.6	90.6	98.5	74.0-127			8.44	20
2,2-Dichloropropane	25.0	24.1	24.7	96.3	99.0	60.0-125			2.72	20
Di-isopropyl ether	25.0	22.3	22.8	89.2	91.2	59.0-133			2.28	20
Ethylbenzene	25.0	23.6	23.6	94.3	94.2	77.0-120			0.140	20
Hexachloro-1,3-butadiene	25.0	24.2	24.4	97.0	97.7	64.0-131			0.740	20
Isopropylbenzene	25.0	23.9	24.0	95.7	95.9	75.0-120			0.170	20
p-Isopropyltoluene	25.0	25.5	24.6	102	98.6	74.0-126			3.40	20
2-Butanone (MEK)	125	132	139	106	111	37.0-158			4.76	20
Methylene Chloride	25.0	23.7	24.4	94.6	97.5	66.0-121			3.01	20

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

(LCS) R3205158-1 03/22/17 12:53 • (LCSD) R3205158-2 03/22/17 13:14

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 %
4-Methyl-2-pentanone (MIBK)	125	124	134	99.5	108	59.0-143			7.74	20
Methyl tert-butyl ether	25.0	22.4	23.2	89.6	92.8	64.0-123			3.56	20
Naphthalene	25.0	23.1	23.6	92.4	94.4	62.0-128			2.23	20
n-Propylbenzene	25.0	24.5	24.5	98.1	98.1	79.0-120			0.0100	20
Styrene	25.0	25.8	25.7	103	103	78.0-124			0.610	20
1,1,1,2-Tetrachloroethane	25.0	24.6	25.4	98.2	101	75.0-122			3.25	20
1,1,2,2-Tetrachloroethane	25.0	23.1	22.9	92.2	91.7	71.0-122			0.530	20
Tetrachloroethene	25.0	22.8	22.7	91.1	90.7	70.0-127			0.470	20
Toluene	25.0	22.6	24.1	90.5	96.2	77.0-120			6.15	20
1,1,2-Trichlorotrifluoroethane	25.0	25.2	25.1	101	100	61.0-136			0.140	20
1,2,3-Trichlorobenzene	25.0	24.5	24.7	97.9	98.7	61.0-133			0.730	20
1,2,4-Trichlorobenzene	25.0	24.3	24.1	97.2	96.6	69.0-129			0.700	20
1,1,1-Trichloroethane	25.0	24.3	24.8	97.1	99.0	68.0-122			1.90	20
1,1,2-Trichloroethane	25.0	23.0	24.1	92.1	96.2	78.0-120			4.41	20
Trichloroethene	25.0	23.3	24.5	93.0	97.8	78.0-120			5.03	20
Trichlorofluoromethane	25.0	26.1	26.0	104	104	56.0-137			0.460	20
1,2,3-Trichloropropane	25.0	23.3	24.3	93.0	97.1	72.0-124			4.23	20
1,2,3-Trimethylbenzene	25.0	21.8	23.5	87.4	94.0	75.0-120			7.29	20
1,2,4-Trimethylbenzene	25.0	25.5	24.7	102	98.7	75.0-120			3.15	20
1,3,5-Trimethylbenzene	25.0	23.9	23.5	95.5	94.0	75.0-120			1.56	20
Vinyl chloride	25.0	24.9	24.2	99.4	96.7	64.0-133			2.74	20
Xylenes, Total	75.0	72.2	72.3	96.3	96.4	77.0-120			0.140	20
(S) Toluene-d8				*103*	*101*	*80.0-120*				
(S) Dibromofluoromethane				*102*	*99.2*	*76.0-123*				
(S) 4-Bromofluorobenzene				*104*	*98.6*	*80.0-120*				

Method Blank (MB)

(MB) R3206109-3 03/27/17 00:54

Analyte	MB Result	MB Qualifier	MB MDL	MB RDL
	ug/l		ug/l	ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3206109-3 03/27/17 00:54

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*102*			*80.0-120*
(S) Dibromofluoromethane	*104*			*76.0-123*
(S) 4-Bromofluorobenzene	*103*			*80.0-120*

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

(LCS) R3206109-1 03/26/17 23:22 • (LCSD) R3206109-2 03/26/17 23:46

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	149	156	119	125	10.0-160			5.14	23
Acrolein	125	522	533	418	426	10.0-160	E J4	E J4	2.08	20
Acrylonitrile	125	125	129	100	103	60.0-142			2.55	20
Benzene	25.0	26.9	28.1	108	113	69.0-123			4.50	20

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

(LCS) R3206109-1 03/26/17 23:22 • (LCSD) R3206109-2 03/26/17 23:46

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	28.4	28.3	113	113	79.0-120			0.310	20
Bromodichloromethane	25.0	27.6	28.5	111	114	76.0-120			3.12	20
Bromoform	25.0	28.4	29.0	114	116	67.0-132			1.93	20
Bromomethane	25.0	28.5	32.1	114	128	18.0-160			11.8	20
n-Butylbenzene	25.0	24.5	25.0	98.0	99.9	72.0-126			1.95	20
sec-Butylbenzene	25.0	24.4	25.0	97.7	100	74.0-121			2.38	20
tert-Butylbenzene	25.0	25.7	26.3	103	105	75.0-122			2.08	20
Carbon tetrachloride	25.0	27.4	28.1	109	113	63.0-122			2.78	20
Chlorobenzene	25.0	29.1	29.6	117	119	79.0-121			1.65	20
Chlorodibromomethane	25.0	29.2	29.5	117	118	75.0-125			1.01	20
Chloroethane	25.0	26.1	27.2	104	109	47.0-152			4.37	20
Chloroform	25.0	27.1	28.4	108	113	72.0-121			4.54	20
Chloromethane	25.0	24.4	24.2	97.6	96.9	48.0-139			0.730	20
2-Chlorotoluene	25.0	28.1	28.6	112	115	74.0-122			1.85	20
4-Chlorotoluene	25.0	28.4	29.0	114	116	79.0-120			2.22	20
1,2-Dibromo-3-Chloropropane	25.0	25.1	25.7	100	103	64.0-127			2.41	20
1,2-Dibromoethane	25.0	28.5	29.1	114	116	77.0-123			1.92	20
Dibromomethane	25.0	26.6	27.7	107	111	78.0-120			3.83	20
1,2-Dichlorobenzene	25.0	28.8	29.6	115	118	80.0-120			2.79	20
1,3-Dichlorobenzene	25.0	28.3	29.0	113	116	72.0-123			2.45	20
1,4-Dichlorobenzene	25.0	28.2	28.6	113	115	77.0-120			1.41	20
Dichlorodifluoromethane	25.0	38.3	40.1	153	160	49.0-155		J4	4.47	20
1,1-Dichloroethane	25.0	26.2	27.2	105	109	70.0-126			3.90	20
1,2-Dichloroethane	25.0	26.5	27.4	106	110	67.0-126			3.54	20
1,1-Dichloroethene	25.0	26.8	27.3	107	109	64.0-129			2.12	20
cis-1,2-Dichloroethene	25.0	27.1	28.3	109	113	73.0-120			4.35	20
trans-1,2-Dichloroethene	25.0	27.3	28.2	109	113	71.0-121			3.43	20
1,2-Dichloropropane	25.0	25.9	26.8	104	107	75.0-125			3.29	20
1,1-Dichloropropene	25.0	28.0	29.2	112	117	71.0-129			4.39	20
1,3-Dichloropropane	25.0	29.0	30.1	116	121	80.0-121			3.93	20
cis-1,3-Dichloropropene	25.0	27.7	28.8	111	115	79.0-123			3.74	20
trans-1,3-Dichloropropene	25.0	26.9	27.5	108	110	74.0-127			2.34	20
2,2-Dichloropropane	25.0	24.1	24.9	96.3	99.7	60.0-125			3.52	20
Di-isopropyl ether	25.0	23.2	23.8	92.7	95.4	59.0-133			2.85	20
Ethylbenzene	25.0	28.2	28.4	113	114	77.0-120			0.820	20
Hexachloro-1,3-butadiene	25.0	25.7	26.4	103	106	64.0-131			2.81	20
Isopropylbenzene	25.0	26.7	27.1	107	108	75.0-120			1.66	20
p-Isopropyltoluene	25.0	25.9	26.4	104	106	74.0-126			1.90	20
2-Butanone (MEK)	125	143	150	114	120	37.0-158			4.86	20
Methylene Chloride	25.0	25.0	26.0	100	104	66.0-121			4.08	20

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

(LCS) R3206109-1 03/26/17 23:22 • (LCSD) R3206109-2 03/26/17 23:46

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 %
4-Methyl-2-pentanone (MIBK)	125	137	142	110	114	59.0-143			3.49	20
Methyl tert-butyl ether	25.0	25.4	26.6	102	106	64.0-123			4.53	20
Naphthalene	25.0	26.1	26.3	104	105	62.0-128			0.730	20
n-Propylbenzene	25.0	27.3	27.7	109	111	79.0-120			1.23	20
Styrene	25.0	28.9	28.8	115	115	78.0-124			0.280	20
1,1,1,2-Tetrachloroethane	25.0	28.2	28.8	113	115	75.0-122			2.14	20
1,1,2,2-Tetrachloroethane	25.0	25.7	25.8	103	103	71.0-122			0.640	20
Tetrachloroethene	25.0	29.1	29.1	116	116	70.0-127			0.140	20
Toluene	25.0	26.7	27.3	107	109	77.0-120			2.13	20
1,1,2-Trichlorotrifluoroethane	25.0	29.7	30.9	119	123	61.0-136			3.71	20
1,2,3-Trichlorobenzene	25.0	26.8	27.3	107	109	61.0-133			1.82	20
1,2,4-Trichlorobenzene	25.0	27.0	27.8	108	111	69.0-129			2.77	20
1,1,1-Trichloroethane	25.0	27.8	28.8	111	115	68.0-122			3.71	20
1,1,2-Trichloroethane	25.0	29.1	29.7	116	119	78.0-120			2.08	20
Trichloroethene	25.0	28.5	29.1	114	116	78.0-120			2.02	20
Trichlorofluoromethane	25.0	30.3	30.3	121	121	56.0-137			0.110	20
1,2,3-Trichloropropane	25.0	27.6	27.5	111	110	72.0-124			0.370	20
1,2,3-Trimethylbenzene	25.0	25.9	26.7	104	107	75.0-120			2.91	20
1,2,4-Trimethylbenzene	25.0	26.9	27.4	108	110	75.0-120			1.91	20
1,3,5-Trimethylbenzene	25.0	25.9	26.4	104	106	75.0-120			1.87	20
Vinyl chloride	25.0	30.6	31.8	122	127	64.0-133			4.04	20
Xylenes, Total	75.0	84.0	85.0	112	113	77.0-120			1.18	20
(S) Toluene-d8				*101*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*106*	*105*	*76.0-123*				
(S) 4-Bromofluorobenzene				*102*	*102*	*80.0-120*				

Method Blank (MB)

(MB) R3207477-5 03/31/17 14:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Acetone	U		10.0	50.0
Acrolein	U		8.87	50.0
Acrylonitrile	U		1.87	10.0
Benzene	U		0.331	1.00
Bromobenzene	U		0.352	1.00
Bromodichloromethane	U		0.380	1.00
Bromoform	U		0.469	1.00
Bromomethane	U		0.866	5.00
n-Butylbenzene	U		0.361	1.00
sec-Butylbenzene	U		0.365	1.00
tert-Butylbenzene	U		0.399	1.00
Carbon tetrachloride	U		0.379	1.00
Chlorobenzene	U		0.348	1.00
Chlorodibromomethane	U		0.327	1.00
Chloroethane	U		0.453	5.00
Chloroform	U		0.324	5.00
Chloromethane	U		0.276	2.50
2-Chlorotoluene	U		0.375	1.00
4-Chlorotoluene	U		0.351	1.00
1,2-Dibromo-3-Chloropropane	U		1.33	5.00
1,2-Dibromoethane	U		0.381	1.00
Dibromomethane	U		0.346	1.00
1,2-Dichlorobenzene	U		0.349	1.00
1,3-Dichlorobenzene	U		0.220	1.00
1,4-Dichlorobenzene	U		0.274	1.00
Dichlorodifluoromethane	U		0.551	5.00
1,1-Dichloroethane	U		0.259	1.00
1,2-Dichloroethane	U		0.361	1.00
1,1-Dichloroethene	U		0.398	1.00
cis-1,2-Dichloroethene	U		0.260	1.00
trans-1,2-Dichloroethene	U		0.396	1.00
1,2-Dichloropropane	U		0.306	1.00
1,1-Dichloropropene	U		0.352	1.00
1,3-Dichloropropane	U		0.366	1.00
cis-1,3-Dichloropropene	U		0.418	1.00
trans-1,3-Dichloropropene	U		0.419	1.00
2,2-Dichloropropane	U		0.321	1.00
Di-isopropyl ether	U		0.320	1.00
Ethylbenzene	U		0.384	1.00
Hexachloro-1,3-butadiene	U		0.256	1.00

Method Blank (MB)

(MB) R3207477-5 03/31/17 14:09

Analyte	MB Result ug/l	MB Qualifier	MB MDL ug/l	MB RDL ug/l
Isopropylbenzene	U		0.326	1.00
p-Isopropyltoluene	U		0.350	1.00
2-Butanone (MEK)	U		3.93	10.0
Methylene Chloride	U		1.00	5.00
4-Methyl-2-pentanone (MIBK)	U		2.14	10.0
Methyl tert-butyl ether	U		0.367	1.00
Naphthalene	U		1.00	5.00
n-Propylbenzene	U		0.349	1.00
Styrene	U		0.307	1.00
1,1,1,2-Tetrachloroethane	U		0.385	1.00
1,1,2,2-Tetrachloroethane	U		0.130	1.00
Tetrachloroethene	U		0.372	1.00
Toluene	U		0.412	1.00
1,1,2-Trichlorotrifluoroethane	U		0.303	1.00
1,2,3-Trichlorobenzene	U		0.230	1.00
1,2,4-Trichlorobenzene	U		0.355	1.00
1,1,1-Trichloroethane	U		0.319	1.00
1,1,2-Trichloroethane	U		0.383	1.00
Trichloroethene	U		0.398	1.00
Trichlorofluoromethane	U		1.20	5.00
1,2,3-Trichloropropane	U		0.807	2.50
1,2,3-Trimethylbenzene	U		0.321	1.00
1,2,4-Trimethylbenzene	U		0.373	1.00
1,3,5-Trimethylbenzene	U		0.387	1.00
Vinyl chloride	U		0.259	1.00
Xylenes, Total	U		1.06	3.00
(S) Toluene-d8	*106*			*80.0-120*
(S) Dibromofluoromethane	*97.8*			*76.0-123*
(S) 4-Bromofluorobenzene	*102*			*80.0-120*

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

(LCS) R3207477-1 03/31/17 12:06 • (LCSD) R3207477-2 03/31/17 12:26

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	122	140	97.9	112	10.0-160			13.4	23
Acrolein	125	504	536	404	429	10.0-160	J4	J4	6.15	20
Acrylonitrile	125	101	106	80.5	84.9	60.0-142			5.25	20
Benzene	25.0	17.4	18.8	69.5	75.4	69.0-123			8.09	20

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

(LCS) R3207477-1 03/31/17 12:06 • (LCSD) R3207477-2 03/31/17 12:26

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	20.4	22.7	81.8	91.0	79.0-120			10.6	20
Bromodichloromethane	25.0	20.7	22.4	83.0	89.8	76.0-120			7.86	20
Bromoform	25.0	20.7	22.3	83.0	89.2	67.0-132			7.25	20
Bromomethane	25.0	18.5	19.8	73.9	79.1	18.0-160			6.90	20
n-Butylbenzene	25.0	22.5	25.3	90.0	101	72.0-126			11.5	20
sec-Butylbenzene	25.0	23.3	25.9	93.3	104	74.0-121			10.4	20
tert-Butylbenzene	25.0	20.7	22.9	83.0	91.4	75.0-122			9.68	20
Carbon tetrachloride	25.0	18.6	20.1	74.2	80.6	63.0-122			8.21	20
Chlorobenzene	25.0	22.1	24.3	88.3	97.3	79.0-121			9.65	20
Chlorodibromomethane	25.0	22.9	24.8	91.6	99.1	75.0-125			7.88	20
Chloroethane	25.0	18.4	19.8	73.5	79.2	47.0-152			7.46	20
Chloroform	25.0	19.7	21.6	78.6	86.6	72.0-121			9.65	20
Chloromethane	25.0	15.6	17.3	62.5	69.0	48.0-139			9.93	20
2-Chlorotoluene	25.0	22.1	24.4	88.6	97.7	74.0-122			9.85	20
4-Chlorotoluene	25.0	22.8	25.0	91.3	100	79.0-120			9.18	20
1,2-Dibromo-3-Chloropropane	25.0	21.9	23.5	87.4	93.9	64.0-127			7.13	20
1,2-Dibromoethane	25.0	21.7	23.5	86.9	94.1	77.0-123			7.95	20
Dibromomethane	25.0	19.7	21.2	78.7	84.8	78.0-120			7.45	20
1,2-Dichlorobenzene	25.0	21.7	24.3	86.7	97.4	80.0-120			11.6	20
1,3-Dichlorobenzene	25.0	23.1	25.3	92.4	101	72.0-123			9.14	20
1,4-Dichlorobenzene	25.0	21.3	23.5	85.1	93.9	77.0-120			9.76	20
Dichlorodifluoromethane	25.0	18.6	20.4	74.5	81.4	49.0-155			8.85	20
1,1-Dichloroethane	25.0	20.1	21.4	80.3	85.5	70.0-126			6.24	20
1,2-Dichloroethane	25.0	18.6	20.2	74.3	80.7	67.0-126			8.31	20
1,1-Dichloroethene	25.0	20.8	21.9	83.3	87.6	64.0-129			5.02	20
cis-1,2-Dichloroethene	25.0	20.2	21.1	80.6	84.6	73.0-120			4.77	20
trans-1,2-Dichloroethene	25.0	19.7	22.6	78.9	90.4	71.0-121			13.6	20
1,2-Dichloropropane	25.0	19.9	21.3	79.5	85.4	75.0-125			7.15	20
1,1-Dichloropropene	25.0	20.7	22.5	82.8	90.0	71.0-129			8.42	20
1,3-Dichloropropane	25.0	21.4	23.6	85.6	94.5	80.0-121			9.90	20
cis-1,3-Dichloropropene	25.0	23.4	25.2	93.7	101	79.0-123			7.19	20
trans-1,3-Dichloropropene	25.0	22.1	23.9	88.4	95.7	74.0-127			7.97	20
2,2-Dichloropropane	25.0	19.8	21.0	79.1	84.0	60.0-125			6.12	20
Di-isopropyl ether	25.0	18.6	20.1	74.4	80.5	59.0-133			7.89	20
Ethylbenzene	25.0	19.1	21.2	76.4	84.9	77.0-120	J4		10.5	20
Hexachloro-1,3-butadiene	25.0	23.3	26.4	93.2	106	64.0-131			12.5	20
Isopropylbenzene	25.0	20.5	22.6	81.8	90.2	75.0-120			9.76	20
p-Isopropyltoluene	25.0	24.0	27.0	96.1	108	74.0-126			11.5	20
2-Butanone (MEK)	125	91.6	95.8	73.3	76.6	37.0-158			4.46	20
Methylene Chloride	25.0	25.5	27.9	102	112	66.0-121			9.03	20

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

(LCS) R3207477-1 03/31/17 12:06 • (LCSD) R3207477-2 03/31/17 12:26

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 %
4-Methyl-2-pentanone (MIBK)	125	105	111	83.7	88.6	59.0-143			5.63	20
Methyl tert-butyl ether	25.0	19.9	21.1	79.5	84.6	64.0-123			6.17	20
Naphthalene	25.0	20.1	22.3	80.5	89.0	62.0-128			10.0	20
n-Propylbenzene	25.0	20.7	22.8	82.9	91.4	79.0-120			9.67	20
Styrene	25.0	21.1	23.3	84.4	93.3	78.0-124			10.1	20
1,1,1,2-Tetrachloroethane	25.0	21.8	24.0	87.3	96.1	75.0-122			9.68	20
1,1,2,2-Tetrachloroethane	25.0	21.0	22.6	83.8	90.2	71.0-122			7.39	20
Tetrachloroethene	25.0	22.0	24.4	87.9	97.5	70.0-127			10.4	20
Toluene	25.0	18.9	20.4	75.8	81.5	77.0-120	J4		7.32	20
1,1,2-Trichlorotrifluoroethane	25.0	19.1	20.2	76.4	80.8	61.0-136			5.61	20
1,2,3-Trichlorobenzene	25.0	22.3	25.3	89.4	101	61.0-133			12.4	20
1,2,4-Trichlorobenzene	25.0	23.0	26.1	92.1	104	69.0-129			12.5	20
1,1,1-Trichloroethane	25.0	21.2	22.9	84.8	91.5	68.0-122			7.55	20
1,1,2-Trichloroethane	25.0	20.8	23.2	83.2	92.7	78.0-120			10.8	20
Trichloroethene	25.0	22.5	23.9	89.9	95.6	78.0-120			6.10	20
Trichlorofluoromethane	25.0	19.3	21.0	77.2	83.9	56.0-137			8.30	20
1,2,3-Trichloropropane	25.0	23.3	26.1	93.2	104	72.0-124			11.4	20
1,2,3-Trimethylbenzene	25.0	18.5	20.6	73.9	82.6	75.0-120	J4		11.1	20
1,2,4-Trimethylbenzene	25.0	23.2	25.4	92.9	102	75.0-120			8.86	20
1,3,5-Trimethylbenzene	25.0	22.3	24.7	89.1	99.0	75.0-120			10.6	20
Vinyl chloride	25.0	19.0	20.1	76.0	80.6	64.0-133			5.86	20
Xylenes, Total	75.0	59.2	65.0	78.9	86.7	77.0-120			9.34	20
(S) Toluene-d8				*104*	*103*	*80.0-120*				
(S) Dibromofluoromethane				*97.7*	*97.0*	*76.0-123*				
(S) 4-Bromofluorobenzene				*106*	*105*	*80.0-120*				

Abbreviations and Definitions

SDG	Sample Delivery Group.
MDL	Method Detection Limit.
RDL	Reported Detection Limit.
ND	Not detected at the Reporting Limit (or MDL where applicable).
U	Not detected at the Reporting Limit (or MDL where applicable).
RPD	Relative Percent Difference.
(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.
Rec.	Recovery.

Qualifier	Description
E	The analyte concentration exceeds the upper limit of the calibration range of the instrument established by the initial calibration (ICAL).
J0	J0 - Analyte exceeds %D or %Rec for Continuing Calibration per 8260C or 8270D method specific criteria. The identification of the analyte is acceptable; the reported value is an estimate.
J4	The associated batch QC was outside the established quality control range for accuracy.

ESC Lab Sciences 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.

State Accreditations

Alabama	40660	Nevada	TN-03-2002-34
Alaska	UST-080	New Hampshire	2975
Arizona	AZ0612	New Jersey–NELAP	TN002
Arkansas	88-0469	New Mexico	TN00003
California	01157CA	New York	11742
Colorado	TN00003	North Carolina	Env375
Conneticut	PH-0197	North Carolina [1]	DW21704
Florida	E87487	North Carolina [2]	41
Georgia	NELAP	North Dakota	R-140
Georgia [1]	923	Ohio–VAP	CL0069
Idaho	TN00003	Oklahoma	9915
Illinois	200008	Oregon	TN200002
Indiana	C-TN-01	Pennsylvania	68-02979
Iowa	364	Rhode Island	221
Kansas	E-10277	South Carolina	84004
Kentucky [1]	90010	South Dakota	n/a
Kentucky [2]	16	Tennessee [1 4]	2006
Louisiana	AI30792	Texas	T 104704245-07-TX
Maine	TN0002	Texas [5]	LAB0152
Maryland	324	Utah	6157585858
Massachusetts	M-TN003	Vermont	VT2006
Michigan	9958	Virginia	109
Minnesota	047-999-395	Washington	C1915
Mississippi	TN00003	West Virginia	233
Missouri	340	Wisconsin	9980939910
Montana	CERT0086	Wyoming	A2LA
Nebraska	NE-OS-15-05		

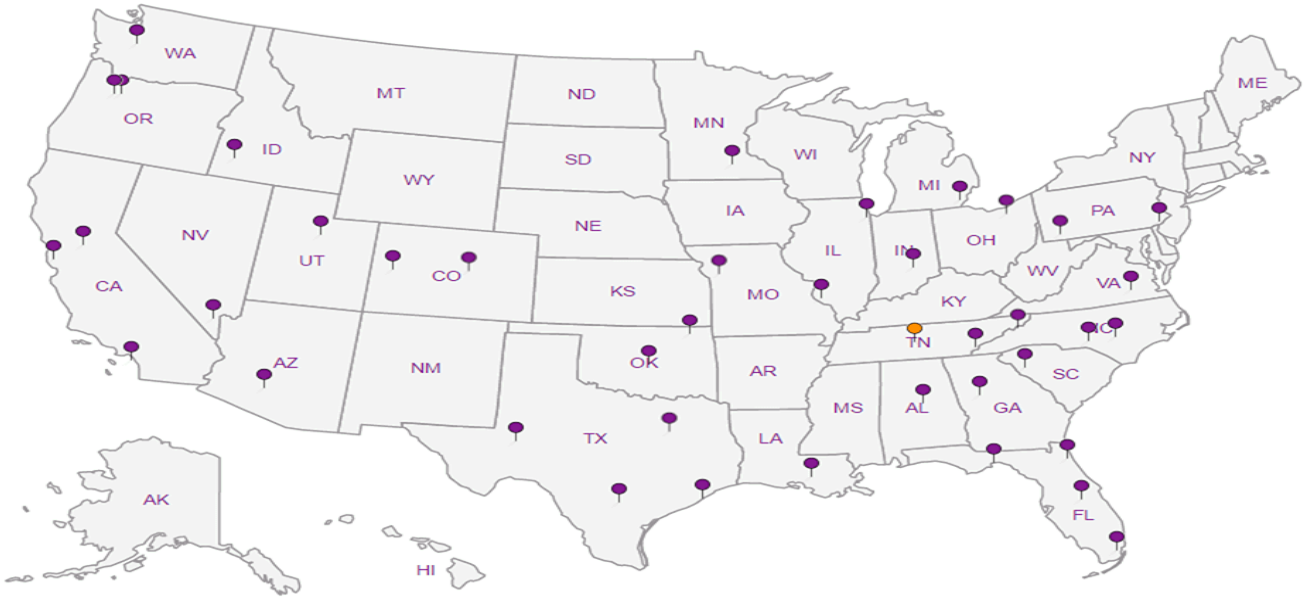
Third Party & Federal Accreditations

A2LA – ISO 17025	1461.01	AIHA-LAP,LLC	100789
A2LA – ISO 17025 [5]	1461.02	DOD	1461.01
Canada	1461.01	USDA	S-67674
EPA–Crypto	TN00003		

[1] Drinking Water [2] Underground Storage Tanks [3] Aquatic Toxicity [4] Chemical/Microbiological [5] Mold [n/a] Accreditation not applicable

Our Locations

ESC Lab Sciences 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. **ESC Lab Sciences performs all testing at our central laboratory.**



PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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

Report to: Matt Dahl

Email To: mdahl@pesenv.com; kspringstead@pesenv.com

Project Description: MVSC

City/State Collected:

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

Client Project # 1358.001.01

Lab Project # PESENVSWA-135800101

Collected by (print): Kristen Springstead

Site/Facility ID # MVSC

P.O. # 1358.001.01.003

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Chain of Custody Page 1 of 4

ESC LABS

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

L# 896931

F098

Acctnum: PESENVSWA
Template: T121444
Prelogin: P592773
TSR: 110 - Brian Ford
PB:
Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260C 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-2-031317	Grab	GW		3-13-17	1200	2	X		01
MW-3-031317	Grab	GW			1330	2	X		02
MW-12-031317	Grab	GW			1430	2	X		03
MW-9-031317	Grab	GW			1530	2	X		04
MW-4-031417		GW		3-14-17	830	2	X		05
MW-13-031417		GW			915	2	X		06
RMW-3-031417		GW			955	2	X		07
MW-15-031417		GW			1120	2	X		08
DC-3-031417		GW			1230	2	X		09
DC-4-031417		GW			1330	2	X		10

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

Remarks:

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCl / MeoH TBR
	3-17-17	1200		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C Bottles Received: 68
				If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-18-17 Time: 0900
				Hold: Condition: NCF OK

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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

Pres Chk

Report to: Matt Dahl

Email To: mdahl@pesenv.com; kspringstead@pesenv.com

Project Description: MVSC

City/State Collected:

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

Client Project # 1358.001.01

Lab Project # PESENVSWA-135800101

Collected by (print): Karsten Springstead

Site/Facility ID # MVSC

P.O. # 1358.001.01.003

Collected by (signature):

Immediately Packed on Ice N ___ Y X

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

Analysis / Container / Preservative

Chain of Custody Page 2 of 4

ESC LABS SCIENCES

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

L# 896431

Table #

Acctnum: PESENVSWA
Template: T121444
Prelogin: P592773
TSR: 110 - Brian Ford
PB:

Shipped Via:

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260C 40mlAmb-HCl	Remarks	Sample # (lab only)
MW-14-031417	Grab	GW		3-14-17	1430	2	X		11
MW-10-031417		GW			1530	2	X		12
KMW-2-031417		GW			1615	2	X		13
DC-11-031517		GW		3-15-17	1015	2	X		14
MW-11-031617		GW		3-16-17	1405	2	X		15
DC-14-031617		GW		3-16-17	1315	2	X		16
DC-18-031617		GW		3-16-17	1235	2	X		17
MW-16-031617		GW		3-16-17	1200	2	X		18
DC-8-031617		GW		3-16-17	1050	2	X		19
DC-15-031617		GW		3-16-17	1015	2	X		20

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

Remarks:

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: N
Preservation Correct/Checked: Y N

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	3-17-17	1700			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C Bottles Received: ML 68	If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-18-17 Time: 0900	Hold: Condition: NCF OK

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

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

Pres Chk

Report to: Matt Dahl

Email To: mdahl@pesenv.com; kspringstead@pesenv.com

Project Description: MVSC

City/State Collected:

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

Client Project # 1358.001.01

Lab Project # PESENVSWA-135800101

Collected by (print): Karsten Springstead

Site/Facility ID # MVSC

P.O. # 1358.001.01.003

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Quote #

Date Results Needed

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260C 40mlAmb-HCl										
DC-15-031617-D	Grab	GW		3-16-17	1020	2	X										21
KMW-7-031617	Grab	GW		3-16-17	910	2	X										22
KMW-8-031617	Grab	GW		3-16-17	820	2	X										23
DC-13-031517	Grab	GW		3-15-17	1230	2	X										24
DC-20-031517	Grab	GW		3-15-17	1145	2	X										25
DC-12-031517	Grab	GW		3-15-17	1100	2	X										26
KMW-9-031517	Grab	GW		3-15-17	930	2	X										27
MW-7-031717	Grab	GW		3-17-17	715	2	X										28
MW-100-031717	Grab	GW		3-17-17	730	2	X										29
DC-10A-031717	Grab	GW		3-17-17	845	2	X										30

Chain of Custody Page 3 of 4

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 896971

Table #

Acctnum: PESENVSWA
Template: T121444
Prelogin: P592773
TSR: 110 - Brian Ford
PB:

Shipped Via:

Remarks | Sample # (lab only)

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

Remarks:

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR
	3-17-17	1700		
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C Bottles Received: 6
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-18-17 Time: 0900

If preservation required by Login: Date/Time

Hold:

Condition: NCF / OK

Chain of Custody Page 4 of 4

ESC LAB SCIENCES
YOUR LAB OF CHOICE
12065 Lebanon Rd
Mount Juliet, TN 37122
Phone: 615-758-5858
Phone: 800-767-5859
Fax: 615-758-5859

L# 896931

Table #

Acctnum: PESENVSWA

Template: T121444

Prelogin: P592773

TSR: 110 - Brian Ford

PB:

Shipped Via:

PES Environmental, Inc.- WA

1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:
Attn: Accounts Payable
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Seattle, WA 98161

Pres Chk

Report to: Matt Dahl

Email To: mdahl@pesenv.com; kspringstead@pesenv.com

Project Description: MVSC

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Client Project # 1358.001.01

Lab Project # PESENVSWA-135800101

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Site/Facility ID # MVSC

P.O. # 1358.001.01.003

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day X Five Day
___ Next Day ___ 5 Day (Rad Only)
___ Two Day ___ 10 Day (Rad Only)
___ Three Day

Date Results Needed

Quote #

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	8260C 40mlAmb-HCl									Remarks	Sample # (lab only)
DC-7-031717	Grab	GW		3-17-17	1000	2	X										31
DC-17-031717	Grab	GW		3-17-17	1100	2	X										32
EQ-031717	Grab	GW		3-17-17	1120	2	X										33
W-DRUM-031717	Grab	WW		3-17-17	1200	2	X										34

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

Remarks:

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

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Trip Blank Received: Yes / No HCL / MeoH TBR	
	3-17-17	1200			
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)	Temp: 2.2 °C	Bottles Received: 68
					If preservation required by Login: Date/Time
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)	Date: 3-18-17	Time: 0900
				Hold:	Condition: NCF / OK

MEMORANDUM

TO: Project File **DATE:** April 13, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center and Harris Family

PROJECT #: 1358.001.01.003

TASK: March 13-17, 2017 Groundwater Samples

LAB: ECS Lab Sciences Request No. L896931

Thirty-two groundwater samples (including two field duplicate), one waste drum sample, associated equipment and trip blanks were collected as part of remediation system performance groundwater sampling at the Manhattan Village Shopping Center and Harris Family site in Normandy Park, Washington between March 13 and 17 of 2017. The samples were analyzed for VOCs by USEPA Method 8260C. Laboratory analytical services were provided by ESC Lab Sciences (ESC) of Mt. Juliet, Tennessee (ESC Report: L896931).

The quality assurance review of the laboratory data are summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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 Organic Superfund Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

A trip blank was collected and submitted for analysis. The trip blank was not noted on the chain of custody though it was analyzed for VOCs. No action was taken other than to note this.

Sample Collection and Preservation

The samples were stored on ice in two coolers and delivered in good condition to the laboratory. Cooler temperature at the time of receipt was measured at 2.2 degrees Centigrade (°C). The

cooler temperatures are within EPAs recommended temperature preservation range of less than 6.0 °C. No data qualifications were warranted.

Holding Times

All samples were analyzed for VOCs within the EPA recommended holding time of 14 days (preserved water). All holding time criteria were met.

Initial and Continuing Calibration

Hard copies of the calibration data for this project are not required in the data deliverable and are typically not reported. The laboratory is required to discuss discrepancies in calibration results associated with the project analyses if they occur. Continuing calibration verification (CCV) issues for acetone and acrolein were identified by the laboratory for all samples associated with Analytical Batch WG922336 (analyzed on March 22, 2017). The acetone and acrolein results are qualified by the laboratory "J0" to indicate that percent difference for acetone and acrolein CCVs are outside of laboratory acceptance criteria. Associated sample results (MW-3-031717, MW-12-031317, MW-9-031317, MW-4-031417, MW-13-031417, KMW-3-031417, MW-15-031417, DC-3-031417, DC-4-031417, MW-14-031417, MW-10-031417, KMW-2-031417, DC-11-031517, MW-11-031617, and DC-14-031617) for acetone and acrolein are all non-detects and are qualified as estimated (UJ).

Method Blank Results

Laboratory method blanks were included with the analytical batch per method requirement. The target analytes (VOCs) were not detected in the method blanks at a concentration at or above the method reporting limits (MRLs). No qualifications of the data were made due to the results of the method blank analyses.

Trip Blank Results

A trip blank was collected and analyzed for VOCs. No target analytes (VOCs) were detected in the trip blank at a concentration at or above the MRLs. No qualifications of the data were made due to the results of the trip blank analyses.

Equipment Blank Results

Equipment blank sample EQ-031717 was collected and analyzed for VOCs. No target analytes (VOCs) were detected in the equipment blank at a concentration at or above the MRLs. No qualifications of the data were made due to the results of the equipment blank analyses.

Field Duplicate Analyses

Field duplicate samples (MW-7-031717 & MW-100-031717 and DC-15-031617 & DC-15-031617-D) were collected and analyzed for VOCs. Results were comparable with relative percent difference (RPDs) of less than 20%.

Laboratory Duplicate Analyses

Laboratory duplicate analysis was not performed. Refer to field duplicate and laboratory control sample results for precision data.

Surrogate Recoveries

The surrogate percent recovery (%R) results for the samples, method blank, matrix spike, and laboratory control sample were within the laboratory surrogate control limits. No data qualifications were warranted.

Laboratory Control Samples

The laboratory control sample and sample duplicate (LCS/LCSD) %R's and relative percent differences (RPDs) were within the laboratory control limits with the following exception:

- LCS/LCSD (R3206109-2) spike compound acrolein was recovered (418 % and 426 %) above ESC's acceptance criteria (10-162%). ESC qualified all associated acrolein results to indicate that LCS/LCSD was recovered above acceptance criteria and exceeded the instrument initial calibration range. No action is taken since acrolein was not detected in the associated samples.

- LCSD (R3206109-2) spike compound dichlorodifluoromethane was recovered (160 %) above ESC's acceptance criteria (49-155%). ESC qualified all associated dichlorodifluoromethane results to indicate that LCS/LCSD was recovered above acceptance criteria. No action is taken since dichlorodifluoromethane was not detected in the associated samples.

- LCS/LCSD (R3207477-2) spike compound acrolein was recovered (404 % and 429 %) above ESC's acceptance criteria (10-160%). ESC qualified all associated acrolein results to indicate that LCS/LCSD was recovered above acceptance criteria. No action is taken since acrolein was not detected in the associated samples.

- LCS (R3207477-2) spiking compounds ethylbenzene, toluene, and 1,2,3-trimethylbenzene were recovered slightly below ESC's acceptance criteria. LCSD ethylbenzene, toluene, and 1,2,3-trimethylbenzene spike recoveries are within criteria. ESC qualified all associated ethylbenzene, toluene, and 1,2,3-trimethylbenzene results in the associated sample (Trip Blank) to indicate that these compounds were recovered below acceptance criteria. No action is taken since the averages of the two recoveries (LCS and LCSD) are within criteria, all LCSD results are acceptable, and this is a Trip Blank sample (sample results are not impacted).

Matrix Spike/Matrix Spike Duplicates

A matrix spike and matrix spike duplicate (MS/MSD) analysis was not performed. Refer to LCS/LCSD and field duplicate results for accuracy and precision data.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the USEPA 8260 VOC analyses were reported based on laboratory MRLs. The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Data Assessment

Data are qualified. All data, including qualified data, are acceptable for intended use. The laboratory report pages showing the qualification of the data is attached.

- The acetone and acrolein results are qualified by the laboratory "J0" to indicate that percent difference for acetone and acrolein CCVs are outside of laboratory acceptance criteria. Associated sample results (MW-3-031717, MW-12-031317, MW-9-031317, MW-4-031417, MW-13-031417, KMW-3-031417, MW-15-031417, DC-3-031417, DC-4-031417, MW-14-031417, MW-10-031417, KMW-2-031417, DC-11-031517, MW-11-031617, and DC-14-031617) for acetone and acrolein are all non-detects and are qualified as estimated (UJ).

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ JO	50.0	1	03/22/2017 16:48	WG962336
Acrolein	ND	UJ JO	50.0	1	03/22/2017 16:48	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 16:48	WG962336
Benzene	ND		1.00	1	03/22/2017 16:48	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 16:48	WG962336
Bromoform	ND		1.00	1	03/22/2017 16:48	WG962336
Bromomethane	ND		5.00	1	03/22/2017 16:48	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 16:48	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 16:48	WG962336
Chloroethane	ND		5.00	1	03/22/2017 16:48	WG962336
Chloroform	ND		5.00	1	03/22/2017 16:48	WG962336
Chloromethane	ND		2.50	1	03/22/2017 16:48	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 16:48	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 16:48	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 16:48	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 16:48	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 16:48	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 16:48	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 16:48	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 16:48	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 16:48	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 16:48	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 16:48	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 16:48	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 16:48	WG962336
Naphthalene	ND		5.00	1	03/22/2017 16:48	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Styrene	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 16:48	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
Toluene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 16:48	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 16:48	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 16:48	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 16:48	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 16:48	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 16:48	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 16:48	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 16:48	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 16:48*	WG962336
(S) Dibromofluoromethane	*96.9*		*76.0-123*		*03/22/2017 16:48*	WG962336
(S) 4-Bromofluorobenzene	*98.4*		*80.0-120*		*03/22/2017 16:48*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND UJ	J0	50.0	1	03/22/2017 17:08	WG962336
Acrolein	ND UJ	J0	50.0	1	03/22/2017 17:08	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 17:08	WG962336
Benzene	ND		1.00	1	03/22/2017 17:08	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 17:08	WG962336
Bromoform	ND		1.00	1	03/22/2017 17:08	WG962336
Bromomethane	ND		5.00	1	03/22/2017 17:08	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 17:08	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 17:08	WG962336
Chloroethane	ND		5.00	1	03/22/2017 17:08	WG962336
Chloroform	ND		5.00	1	03/22/2017 17:08	WG962336
Chloromethane	ND		2.50	1	03/22/2017 17:08	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 17:08	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 17:08	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 17:08	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 17:08	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:08	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 17:08	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 17:08	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 17:08	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 17:08	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 17:08	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 17:08	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 17:08	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 17:08	WG962336
Naphthalene	ND		5.00	1	03/22/2017 17:08	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Styrene	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 17:08	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
Toluene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 17:08	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:08	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:08	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:08	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:08	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:08	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:08	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:08	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 17:08*	WG962336
(S) Dibromofluoromethane	*97.0*		*76.0-123*		*03/22/2017 17:08*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 17:08*	WG962336

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

Analyte	Result		Qualifier	RDL	Dilution	Analysis	Batch
	ug/l			ug/l		date / time	
Acetone	ND	UJ	JO	50.0	1	03/22/2017 17:29	WG962336
Acrolein	ND	UJ	JO	50.0	1	03/22/2017 17:29	WG962336
Acrylonitrile	ND			10.0	1	03/22/2017 17:29	WG962336
Benzene	ND			1.00	1	03/22/2017 17:29	WG962336
Bromobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Bromodichloromethane	ND			1.00	1	03/22/2017 17:29	WG962336
Bromoform	ND			1.00	1	03/22/2017 17:29	WG962336
Bromomethane	ND			5.00	1	03/22/2017 17:29	WG962336
n-Butylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
sec-Butylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
tert-Butylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Carbon tetrachloride	ND			1.00	1	03/22/2017 17:29	WG962336
Chlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Chlorodibromomethane	ND			1.00	1	03/22/2017 17:29	WG962336
Chloroethane	ND			5.00	1	03/22/2017 17:29	WG962336
Chloroform	ND			5.00	1	03/22/2017 17:29	WG962336
Chloromethane	ND			2.50	1	03/22/2017 17:29	WG962336
2-Chlorotoluene	ND			1.00	1	03/22/2017 17:29	WG962336
4-Chlorotoluene	ND			1.00	1	03/22/2017 17:29	WG962336
1,2-Dibromo-3-Chloropropane	ND			5.00	1	03/22/2017 17:29	WG962336
1,2-Dibromoethane	ND			1.00	1	03/22/2017 17:29	WG962336
Dibromomethane	ND			1.00	1	03/22/2017 17:29	WG962336
1,2-Dichlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
1,3-Dichlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
1,4-Dichlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Dichlorodifluoromethane	ND			5.00	1	03/22/2017 17:29	WG962336
1,1-Dichloroethane	ND			1.00	1	03/22/2017 17:29	WG962336
1,2-Dichloroethane	ND			1.00	1	03/22/2017 17:29	WG962336
1,1-Dichloroethene	ND			1.00	1	03/22/2017 17:29	WG962336
cis-1,2-Dichloroethene	ND			1.00	1	03/22/2017 17:29	WG962336
trans-1,2-Dichloroethene	ND			1.00	1	03/22/2017 17:29	WG962336
1,2-Dichloropropane	ND			1.00	1	03/22/2017 17:29	WG962336
1,1-Dichloropropene	ND			1.00	1	03/22/2017 17:29	WG962336
1,3-Dichloropropane	ND			1.00	1	03/22/2017 17:29	WG962336
cis-1,3-Dichloropropene	ND			1.00	1	03/22/2017 17:29	WG962336
trans-1,3-Dichloropropene	ND			1.00	1	03/22/2017 17:29	WG962336
2,2-Dichloropropane	ND			1.00	1	03/22/2017 17:29	WG962336
Di-isopropyl ether	ND			1.00	1	03/22/2017 17:29	WG962336
Ethylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Hexachloro-1,3-butadiene	ND			1.00	1	03/22/2017 17:29	WG962336
Isopropylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
p-Isopropyltoluene	ND			1.00	1	03/22/2017 17:29	WG962336
2-Butanone (MEK)	ND			10.0	1	03/22/2017 17:29	WG962336
Methylene Chloride	ND			5.00	1	03/22/2017 17:29	WG962336
4-Methyl-2-pentanone (MIBK)	ND			10.0	1	03/22/2017 17:29	WG962336
Methyl tert-butyl ether	ND			1.00	1	03/22/2017 17:29	WG962336
Naphthalene	ND			5.00	1	03/22/2017 17:29	WG962336
n-Propylbenzene	ND			1.00	1	03/22/2017 17:29	WG962336
Styrene	ND			1.00	1	03/22/2017 17:29	WG962336
1,1,1,2-Tetrachloroethane	ND			1.00	1	03/22/2017 17:29	WG962336
1,1,2,2-Tetrachloroethane	ND			1.00	1	03/22/2017 17:29	WG962336
1,1,2-Trichlorotrifluoroethane	ND			1.00	1	03/22/2017 17:29	WG962336
Tetrachloroethene	ND			1.00	1	03/22/2017 17:29	WG962336
Toluene	ND			1.00	1	03/22/2017 17:29	WG962336
1,2,3-Trichlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336
1,2,4-Trichlorobenzene	ND			1.00	1	03/22/2017 17:29	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:29	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:29	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:29	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:29	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:29	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:29	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:29	WG962336
(S) Toluene-d8	*99.9*		*80.0-120*		*03/22/2017 17:29*	WG962336
(S) Dibromofluoromethane	*95.9*		*76.0-123*		*03/22/2017 17:29*	WG962336
(S) 4-Bromofluorobenzene	*96.4*		*80.0-120*		*03/22/2017 17:29*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ JO	50.0	1	03/22/2017 17:50	WG962336
Acrolein	ND	UJ JO	50.0	1	03/22/2017 17:50	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 17:50	WG962336
Benzene	ND		1.00	1	03/22/2017 17:50	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 17:50	WG962336
Bromoform	ND		1.00	1	03/22/2017 17:50	WG962336
Bromomethane	ND		5.00	1	03/22/2017 17:50	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 17:50	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 17:50	WG962336
Chloroethane	ND		5.00	1	03/22/2017 17:50	WG962336
Chloroform	ND		5.00	1	03/22/2017 17:50	WG962336
Chloromethane	ND		2.50	1	03/22/2017 17:50	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 17:50	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 17:50	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 17:50	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 17:50	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 17:50	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 17:50	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 17:50	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 17:50	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 17:50	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 17:50	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 17:50	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 17:50	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 17:50	WG962336
Naphthalene	ND		5.00	1	03/22/2017 17:50	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Styrene	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 17:50	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
Toluene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 17:50	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 17:50	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 17:50	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 17:50	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 17:50	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 17:50	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 17:50	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 17:50	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 17:50*	WG962336
(S) Dibromofluoromethane	*102*		*76.0-123*		*03/22/2017 17:50*	WG962336
(S) 4-Bromofluorobenzene	*106*		*80.0-120*		*03/22/2017 17:50*	WG962336

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

Analyte	Result		Qualifier	RDL	Dilution	Analysis	Batch
	ug/l			ug/l		date / time	
Acetone	ND	UJ	J0	50.0	1	03/22/2017 18:11	WG962336
Acrolein	ND	UJ	J0	50.0	1	03/22/2017 18:11	WG962336
Acrylonitrile	ND			10.0	1	03/22/2017 18:11	WG962336
Benzene	ND			1.00	1	03/22/2017 18:11	WG962336
Bromobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Bromodichloromethane	ND			1.00	1	03/22/2017 18:11	WG962336
Bromoform	ND			1.00	1	03/22/2017 18:11	WG962336
Bromomethane	ND			5.00	1	03/22/2017 18:11	WG962336
n-Butylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
sec-Butylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
tert-Butylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Carbon tetrachloride	ND			1.00	1	03/22/2017 18:11	WG962336
Chlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Chlorodibromomethane	ND			1.00	1	03/22/2017 18:11	WG962336
Chloroethane	ND			5.00	1	03/22/2017 18:11	WG962336
Chloroform	ND			5.00	1	03/22/2017 18:11	WG962336
Chloromethane	ND			2.50	1	03/22/2017 18:11	WG962336
2-Chlorotoluene	ND			1.00	1	03/22/2017 18:11	WG962336
4-Chlorotoluene	ND			1.00	1	03/22/2017 18:11	WG962336
1,2-Dibromo-3-Chloropropane	ND			5.00	1	03/22/2017 18:11	WG962336
1,2-Dibromoethane	ND			1.00	1	03/22/2017 18:11	WG962336
Dibromomethane	ND			1.00	1	03/22/2017 18:11	WG962336
1,2-Dichlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
1,3-Dichlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
1,4-Dichlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Dichlorodifluoromethane	ND			5.00	1	03/22/2017 18:11	WG962336
1,1-Dichloroethane	ND			1.00	1	03/22/2017 18:11	WG962336
1,2-Dichloroethane	ND			1.00	1	03/22/2017 18:11	WG962336
1,1-Dichloroethene	ND			1.00	1	03/22/2017 18:11	WG962336
cis-1,2-Dichloroethene	ND			1.00	1	03/22/2017 18:11	WG962336
trans-1,2-Dichloroethene	ND			1.00	1	03/22/2017 18:11	WG962336
1,2-Dichloropropane	ND			1.00	1	03/22/2017 18:11	WG962336
1,1-Dichloropropene	ND			1.00	1	03/22/2017 18:11	WG962336
1,3-Dichloropropane	ND			1.00	1	03/22/2017 18:11	WG962336
cis-1,3-Dichloropropene	ND			1.00	1	03/22/2017 18:11	WG962336
trans-1,3-Dichloropropene	ND			1.00	1	03/22/2017 18:11	WG962336
2,2-Dichloropropane	ND			1.00	1	03/22/2017 18:11	WG962336
Di-isopropyl ether	ND			1.00	1	03/22/2017 18:11	WG962336
Ethylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Hexachloro-1,3-butadiene	ND			1.00	1	03/22/2017 18:11	WG962336
Isopropylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
p-Isopropyltoluene	ND			1.00	1	03/22/2017 18:11	WG962336
2-Butanone (MEK)	ND			10.0	1	03/22/2017 18:11	WG962336
Methylene Chloride	ND			5.00	1	03/22/2017 18:11	WG962336
4-Methyl-2-pentanone (MIBK)	ND			10.0	1	03/22/2017 18:11	WG962336
Methyl tert-butyl ether	ND			1.00	1	03/22/2017 18:11	WG962336
Naphthalene	ND			5.00	1	03/22/2017 18:11	WG962336
n-Propylbenzene	ND			1.00	1	03/22/2017 18:11	WG962336
Styrene	ND			1.00	1	03/22/2017 18:11	WG962336
1,1,1,2-Tetrachloroethane	ND			1.00	1	03/22/2017 18:11	WG962336
1,1,2,2-Tetrachloroethane	ND			1.00	1	03/22/2017 18:11	WG962336
1,1,2-Trichlorotrifluoroethane	ND			1.00	1	03/22/2017 18:11	WG962336
Tetrachloroethene	ND			1.00	1	03/22/2017 18:11	WG962336
Toluene	ND			1.00	1	03/22/2017 18:11	WG962336
1,2,3-Trichlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336
1,2,4-Trichlorobenzene	ND			1.00	1	03/22/2017 18:11	WG962336

Cp
Tc
Ss
Cn
Sr
Qc
Gl
Al
Sc

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:11	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:11	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:11	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:11	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:11	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:11	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:11	WG962336
(S) Toluene-d8	*103*		*80.0-120*		*03/22/2017 18:11*	WG962336
(S) Dibromofluoromethane	*93.5*		*76.0-123*		*03/22/2017 18:11*	WG962336
(S) 4-Bromofluorobenzene	*99.0*		*80.0-120*		*03/22/2017 18:11*	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND UJ	J0	50.0	1	03/22/2017 18:32	WG962336
Acrolein	ND UJ	J0	50.0	1	03/22/2017 18:32	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 18:32	WG962336
Benzene	ND		1.00	1	03/22/2017 18:32	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 18:32	WG962336
Bromoform	ND		1.00	1	03/22/2017 18:32	WG962336
Bromomethane	ND		5.00	1	03/22/2017 18:32	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 18:32	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 18:32	WG962336
Chloroethane	ND		5.00	1	03/22/2017 18:32	WG962336
Chloroform	ND		5.00	1	03/22/2017 18:32	WG962336
Chloromethane	ND		2.50	1	03/22/2017 18:32	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 18:32	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 18:32	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 18:32	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 18:32	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 18:32	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 18:32	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 18:32	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 18:32	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 18:32	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 18:32	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 18:32	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 18:32	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 18:32	WG962336
Naphthalene	ND		5.00	1	03/22/2017 18:32	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Styrene	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 18:32	WG962336
Tetrachloroethene	3.23		1.00	1	03/22/2017 18:32	WG962336
Toluene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 18:32	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:32	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:32	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:32	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:32	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:32	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:32	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:32	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 18:32*	WG962336
(S) Dibromofluoromethane	*95.9*		*76.0-123*		*03/22/2017 18:32*	WG962336
(S) 4-Bromofluorobenzene	*97.7*		*80.0-120*		*03/22/2017 18:32*	WG962336

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

Analyte	Result ug/l		Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ	JO	50.0	1	03/22/2017 18:53	WG962336
Acrolein	ND	UJ	JO	50.0	1	03/22/2017 18:53	WG962336
Acrylonitrile	ND			10.0	1	03/22/2017 18:53	WG962336
Benzene	ND			1.00	1	03/22/2017 18:53	WG962336
Bromobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Bromodichloromethane	ND			1.00	1	03/22/2017 18:53	WG962336
Bromoform	ND			1.00	1	03/22/2017 18:53	WG962336
Bromomethane	ND			5.00	1	03/22/2017 18:53	WG962336
n-Butylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
sec-Butylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
tert-Butylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Carbon tetrachloride	ND			1.00	1	03/22/2017 18:53	WG962336
Chlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Chlorodibromomethane	ND			1.00	1	03/22/2017 18:53	WG962336
Chloroethane	ND			5.00	1	03/22/2017 18:53	WG962336
Chloroform	ND			5.00	1	03/22/2017 18:53	WG962336
Chloromethane	ND			2.50	1	03/22/2017 18:53	WG962336
2-Chlorotoluene	ND			1.00	1	03/22/2017 18:53	WG962336
4-Chlorotoluene	ND			1.00	1	03/22/2017 18:53	WG962336
1,2-Dibromo-3-Chloropropane	ND			5.00	1	03/22/2017 18:53	WG962336
1,2-Dibromoethane	ND			1.00	1	03/22/2017 18:53	WG962336
Dibromomethane	ND			1.00	1	03/22/2017 18:53	WG962336
1,2-Dichlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
1,3-Dichlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
1,4-Dichlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Dichlorodifluoromethane	ND			5.00	1	03/22/2017 18:53	WG962336
1,1-Dichloroethane	ND			1.00	1	03/22/2017 18:53	WG962336
1,2-Dichloroethane	ND			1.00	1	03/22/2017 18:53	WG962336
1,1-Dichloroethene	ND			1.00	1	03/22/2017 18:53	WG962336
cis-1,2-Dichloroethene	ND			1.00	1	03/22/2017 18:53	WG962336
trans-1,2-Dichloroethene	ND			1.00	1	03/22/2017 18:53	WG962336
1,2-Dichloropropane	ND			1.00	1	03/22/2017 18:53	WG962336
1,1-Dichloropropene	ND			1.00	1	03/22/2017 18:53	WG962336
1,3-Dichloropropane	ND			1.00	1	03/22/2017 18:53	WG962336
cis-1,3-Dichloropropene	ND			1.00	1	03/22/2017 18:53	WG962336
trans-1,3-Dichloropropene	ND			1.00	1	03/22/2017 18:53	WG962336
2,2-Dichloropropane	ND			1.00	1	03/22/2017 18:53	WG962336
Di-isopropyl ether	ND			1.00	1	03/22/2017 18:53	WG962336
Ethylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Hexachloro-1,3-butadiene	ND			1.00	1	03/22/2017 18:53	WG962336
Isopropylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
p-Isopropyltoluene	ND			1.00	1	03/22/2017 18:53	WG962336
2-Butanone (MEK)	ND			10.0	1	03/22/2017 18:53	WG962336
Methylene Chloride	ND			5.00	1	03/22/2017 18:53	WG962336
4-Methyl-2-pentanone (MIBK)	ND			10.0	1	03/22/2017 18:53	WG962336
Methyl tert-butyl ether	ND			1.00	1	03/22/2017 18:53	WG962336
Naphthalene	ND			5.00	1	03/22/2017 18:53	WG962336
n-Propylbenzene	ND			1.00	1	03/22/2017 18:53	WG962336
Styrene	ND			1.00	1	03/22/2017 18:53	WG962336
1,1,1,2-Tetrachloroethane	ND			1.00	1	03/22/2017 18:53	WG962336
1,1,2,2-Tetrachloroethane	ND			1.00	1	03/22/2017 18:53	WG962336
1,1,2-Trichlorotrifluoroethane	ND			1.00	1	03/22/2017 18:53	WG962336
Tetrachloroethene	ND			1.00	1	03/22/2017 18:53	WG962336
Toluene	ND			1.00	1	03/22/2017 18:53	WG962336
1,2,3-Trichlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336
1,2,4-Trichlorobenzene	ND			1.00	1	03/22/2017 18:53	WG962336

Cp Tc Ss Cn Sr Qc Gl Al Sc

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 18:53	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 18:53	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 18:53	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 18:53	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 18:53	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 18:53	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 18:53	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 18:53*	WG962336
(S) Dibromofluoromethane	*97.4*		*76.0-123*		*03/22/2017 18:53*	WG962336
(S) 4-Bromofluorobenzene	*98.2*		*80.0-120*		*03/22/2017 18:53*	WG962336

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

Analyte	Result ug/l		Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	VJ	JO	50.0	1	03/22/2017 19:13	WG962336
Acrolein	ND	VJ	JO	50.0	1	03/22/2017 19:13	WG962336
Acrylonitrile	ND			10.0	1	03/22/2017 19:13	WG962336
Benzene	ND			1.00	1	03/22/2017 19:13	WG962336
Bromobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Bromodichloromethane	ND			1.00	1	03/22/2017 19:13	WG962336
Bromoform	ND			1.00	1	03/22/2017 19:13	WG962336
Bromomethane	ND			5.00	1	03/22/2017 19:13	WG962336
n-Butylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
sec-Butylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
tert-Butylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Carbon tetrachloride	ND			1.00	1	03/22/2017 19:13	WG962336
Chlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Chlorodibromomethane	ND			1.00	1	03/22/2017 19:13	WG962336
Chloroethane	ND			5.00	1	03/22/2017 19:13	WG962336
Chloroform	ND			5.00	1	03/22/2017 19:13	WG962336
Chloromethane	ND			2.50	1	03/22/2017 19:13	WG962336
2-Chlorotoluene	ND			1.00	1	03/22/2017 19:13	WG962336
4-Chlorotoluene	ND			1.00	1	03/22/2017 19:13	WG962336
1,2-Dibromo-3-Chloropropane	ND			5.00	1	03/22/2017 19:13	WG962336
1,2-Dibromoethane	ND			1.00	1	03/22/2017 19:13	WG962336
Dibromomethane	ND			1.00	1	03/22/2017 19:13	WG962336
1,2-Dichlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
1,3-Dichlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
1,4-Dichlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Dichlorodifluoromethane	ND			5.00	1	03/22/2017 19:13	WG962336
1,1-Dichloroethane	ND			1.00	1	03/22/2017 19:13	WG962336
1,2-Dichloroethane	ND			1.00	1	03/22/2017 19:13	WG962336
1,1-Dichloroethene	ND			1.00	1	03/22/2017 19:13	WG962336
cis-1,2-Dichloroethene	ND			1.00	1	03/22/2017 19:13	WG962336
trans-1,2-Dichloroethene	ND			1.00	1	03/22/2017 19:13	WG962336
1,2-Dichloropropane	ND			1.00	1	03/22/2017 19:13	WG962336
1,1-Dichloropropene	ND			1.00	1	03/22/2017 19:13	WG962336
1,3-Dichloropropane	ND			1.00	1	03/22/2017 19:13	WG962336
cis-1,3-Dichloropropene	ND			1.00	1	03/22/2017 19:13	WG962336
trans-1,3-Dichloropropene	ND			1.00	1	03/22/2017 19:13	WG962336
2,2-Dichloropropane	ND			1.00	1	03/22/2017 19:13	WG962336
Di-isopropyl ether	ND			1.00	1	03/22/2017 19:13	WG962336
Ethylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Hexachloro-1,3-butadiene	ND			1.00	1	03/22/2017 19:13	WG962336
Isopropylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
p-Isopropyltoluene	ND			1.00	1	03/22/2017 19:13	WG962336
2-Butanone (MEK)	ND			10.0	1	03/22/2017 19:13	WG962336
Methylene Chloride	ND			5.00	1	03/22/2017 19:13	WG962336
4-Methyl-2-pentanone (MIBK)	ND			10.0	1	03/22/2017 19:13	WG962336
Methyl tert-butyl ether	ND			1.00	1	03/22/2017 19:13	WG962336
Naphthalene	ND			5.00	1	03/22/2017 19:13	WG962336
n-Propylbenzene	ND			1.00	1	03/22/2017 19:13	WG962336
Styrene	ND			1.00	1	03/22/2017 19:13	WG962336
1,1,1,2-Tetrachloroethane	ND			1.00	1	03/22/2017 19:13	WG962336
1,1,2,2-Tetrachloroethane	ND			1.00	1	03/22/2017 19:13	WG962336
1,1,2-Trichlorotrifluoroethane	ND			1.00	1	03/22/2017 19:13	WG962336
Tetrachloroethene	2.11			1.00	1	03/22/2017 19:13	WG962336
Toluene	ND			1.00	1	03/22/2017 19:13	WG962336
1,2,3-Trichlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336
1,2,4-Trichlorobenzene	ND			1.00	1	03/22/2017 19:13	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:13	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:13	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:13	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:13	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:13	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:13	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:13	WG962336
(S) Toluene-d8	*103*		*80.0-120*		*03/22/2017 19:13*	WG962336
(S) Dibromofluoromethane	*99.6*		*76.0-123*		*03/22/2017 19:13*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 19:13*	WG962336

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

Analyte	Result ug/l		Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ	J0	50.0	1	03/22/2017 19:34	WG962336
Acrolein	ND	UJ	J0	50.0	1	03/22/2017 19:34	WG962336
Acrylonitrile	ND			10.0	1	03/22/2017 19:34	WG962336
Benzene	ND			1.00	1	03/22/2017 19:34	WG962336
Bromobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Bromodichloromethane	ND			1.00	1	03/22/2017 19:34	WG962336
Bromoform	ND			1.00	1	03/22/2017 19:34	WG962336
Bromomethane	ND			5.00	1	03/22/2017 19:34	WG962336
n-Butylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
sec-Butylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
tert-Butylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Carbon tetrachloride	ND			1.00	1	03/22/2017 19:34	WG962336
Chlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Chlorodibromomethane	ND			1.00	1	03/22/2017 19:34	WG962336
Chloroethane	ND			5.00	1	03/22/2017 19:34	WG962336
Chloroform	ND			5.00	1	03/22/2017 19:34	WG962336
Chloromethane	ND			2.50	1	03/22/2017 19:34	WG962336
2-Chlorotoluene	ND			1.00	1	03/22/2017 19:34	WG962336
4-Chlorotoluene	ND			1.00	1	03/22/2017 19:34	WG962336
1,2-Dibromo-3-Chloropropane	ND			5.00	1	03/22/2017 19:34	WG962336
1,2-Dibromoethane	ND			1.00	1	03/22/2017 19:34	WG962336
Dibromomethane	ND			1.00	1	03/22/2017 19:34	WG962336
1,2-Dichlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
1,3-Dichlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
1,4-Dichlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Dichlorodifluoromethane	ND			5.00	1	03/22/2017 19:34	WG962336
1,1-Dichloroethane	ND			1.00	1	03/22/2017 19:34	WG962336
1,2-Dichloroethane	ND			1.00	1	03/22/2017 19:34	WG962336
1,1-Dichloroethene	ND			1.00	1	03/22/2017 19:34	WG962336
cis-1,2-Dichloroethene	ND			1.00	1	03/22/2017 19:34	WG962336
trans-1,2-Dichloroethene	ND			1.00	1	03/22/2017 19:34	WG962336
1,2-Dichloropropane	ND			1.00	1	03/22/2017 19:34	WG962336
1,1-Dichloropropene	ND			1.00	1	03/22/2017 19:34	WG962336
1,3-Dichloropropane	ND			1.00	1	03/22/2017 19:34	WG962336
cis-1,3-Dichloropropene	ND			1.00	1	03/22/2017 19:34	WG962336
trans-1,3-Dichloropropene	ND			1.00	1	03/22/2017 19:34	WG962336
2,2-Dichloropropane	ND			1.00	1	03/22/2017 19:34	WG962336
Di-isopropyl ether	ND			1.00	1	03/22/2017 19:34	WG962336
Ethylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Hexachloro-1,3-butadiene	ND			1.00	1	03/22/2017 19:34	WG962336
Isopropylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
p-Isopropyltoluene	ND			1.00	1	03/22/2017 19:34	WG962336
2-Butanone (MEK)	ND			10.0	1	03/22/2017 19:34	WG962336
Methylene Chloride	ND			5.00	1	03/22/2017 19:34	WG962336
4-Methyl-2-pentanone (MIBK)	ND			10.0	1	03/22/2017 19:34	WG962336
Methyl tert-butyl ether	ND			1.00	1	03/22/2017 19:34	WG962336
Naphthalene	ND			5.00	1	03/22/2017 19:34	WG962336
n-Propylbenzene	ND			1.00	1	03/22/2017 19:34	WG962336
Styrene	ND			1.00	1	03/22/2017 19:34	WG962336
1,1,1,2-Tetrachloroethane	ND			1.00	1	03/22/2017 19:34	WG962336
1,1,2,2-Tetrachloroethane	ND			1.00	1	03/22/2017 19:34	WG962336
1,1,2-Trichlorotrifluoroethane	ND			1.00	1	03/22/2017 19:34	WG962336
Tetrachloroethene	ND			1.00	1	03/22/2017 19:34	WG962336
Toluene	ND			1.00	1	03/22/2017 19:34	WG962336
1,2,3-Trichlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336
1,2,4-Trichlorobenzene	ND			1.00	1	03/22/2017 19:34	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:34	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:34	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:34	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:34	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:34	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:34	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:34	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 19:34*	WG962336
(S) Dibromofluoromethane	*96.2*		*76.0-123*		*03/22/2017 19:34*	WG962336
(S) 4-Bromofluorobenzene	*93.2*		*80.0-120*		*03/22/2017 19:34*	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND UJ	JO	50.0	1	03/22/2017 19:54	WG962336
Acrolein	ND UJ	JO	50.0	1	03/22/2017 19:54	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 19:54	WG962336
Benzene	ND		1.00	1	03/22/2017 19:54	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 19:54	WG962336
Bromoform	ND		1.00	1	03/22/2017 19:54	WG962336
Bromomethane	ND		5.00	1	03/22/2017 19:54	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 19:54	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 19:54	WG962336
Chloroethane	ND		5.00	1	03/22/2017 19:54	WG962336
Chloroform	ND		5.00	1	03/22/2017 19:54	WG962336
Chloromethane	ND		2.50	1	03/22/2017 19:54	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 19:54	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 19:54	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 19:54	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 19:54	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 19:54	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 19:54	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 19:54	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 19:54	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 19:54	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 19:54	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 19:54	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 19:54	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 19:54	WG962336
Naphthalene	ND		5.00	1	03/22/2017 19:54	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Styrene	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 19:54	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
Toluene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 19:54	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 19:54	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 19:54	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 19:54	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 19:54	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 19:54	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 19:54	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 19:54	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 19:54*	WG962336
(S) Dibromofluoromethane	*99.2*		*76.0-123*		*03/22/2017 19:54*	WG962336
(S) 4-Bromofluorobenzene	*105*		*80.0-120*		*03/22/2017 19:54*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND UJ	J0	50.0	1	03/22/2017 20:15	WG962336
Acrolein	ND UJ	J0	50.0	1	03/22/2017 20:15	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:15	WG962336
Benzene	ND		1.00	1	03/22/2017 20:15	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:15	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:15	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:15	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:15	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:15	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:15	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:15	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:15	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:15	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:15	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:15	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:15	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:15	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:15	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:15	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:15	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:15	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:15	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:15	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:15	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:15	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:15	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Styrene	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:15	WG962336
Tetrachloroethene	1.09		1.00	1	03/22/2017 20:15	WG962336
Toluene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:15	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:15	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:15	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:15	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:15	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:15	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:15	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:15	WG962336
(S) Toluene-d8	*100*		*80.0-120*		*03/22/2017 20:15*	WG962336
(S) Dibromofluoromethane	*93.3*		*76.0-123*		*03/22/2017 20:15*	WG962336
(S) 4-Bromofluorobenzene	*93.0*		*80.0-120*		*03/22/2017 20:15*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ JO	50.0	1	03/22/2017 20:36	WG962336
Acrolein	ND	UJ JO	50.0	1	03/22/2017 20:36	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:36	WG962336
Benzene	ND		1.00	1	03/22/2017 20:36	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:36	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:36	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:36	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:36	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:36	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:36	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:36	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:36	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:36	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:36	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:36	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:36	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:36	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:36	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:36	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:36	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:36	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:36	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:36	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:36	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:36	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:36	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Styrene	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:36	WG962336
Tetrachloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
Toluene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:36	WG962336

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:36	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:36	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:36	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:36	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:36	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:36	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:36	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 20:36*	WG962336
(S) Dibromofluoromethane	*98.4*		*76.0-123*		*03/22/2017 20:36*	WG962336
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*03/22/2017 20:36*	WG962336

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND UJ	J0	50.0	1	03/22/2017 20:56	WG962336
Acrolein	ND UJ	J0	50.0	1	03/22/2017 20:56	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 20:56	WG962336
Benzene	ND		1.00	1	03/22/2017 20:56	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 20:56	WG962336
Bromoform	ND		1.00	1	03/22/2017 20:56	WG962336
Bromomethane	ND		5.00	1	03/22/2017 20:56	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 20:56	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 20:56	WG962336
Chloroethane	ND		5.00	1	03/22/2017 20:56	WG962336
Chloroform	ND		5.00	1	03/22/2017 20:56	WG962336
Chloromethane	ND		2.50	1	03/22/2017 20:56	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 20:56	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 20:56	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 20:56	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 20:56	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 20:56	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 20:56	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 20:56	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 20:56	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 20:56	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 20:56	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 20:56	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 20:56	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 20:56	WG962336
Naphthalene	ND		5.00	1	03/22/2017 20:56	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Styrene	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 20:56	WG962336
Tetrachloroethene	1.97		1.00	1	03/22/2017 20:56	WG962336
Toluene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 20:56	WG962336

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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	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 20:56	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 20:56	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 20:56	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 20:56	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 20:56	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 20:56	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 20:56	WG962336
(S) Toluene-d8	*102*		*80.0-120*		*03/22/2017 20:56*	WG962336
(S) Dibromofluoromethane	*96.4*		*76.0-123*		*03/22/2017 20:56*	WG962336
(S) 4-Bromofluorobenzene	*100*		*80.0-120*		*03/22/2017 20:56*	WG962336

4/17/17

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
Acetone	ND	UJ JO	50.0	1	03/22/2017 21:17	WG962336
Acrolein	ND	UJ JO	50.0	1	03/22/2017 21:17	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 21:17	WG962336
Benzene	ND		1.00	1	03/22/2017 21:17	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 21:17	WG962336
Bromoform	ND		1.00	1	03/22/2017 21:17	WG962336
Bromomethane	ND		5.00	1	03/22/2017 21:17	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 21:17	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 21:17	WG962336
Chloroethane	ND		5.00	1	03/22/2017 21:17	WG962336
Chloroform	ND		5.00	1	03/22/2017 21:17	WG962336
Chloromethane	ND		2.50	1	03/22/2017 21:17	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 21:17	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 21:17	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 21:17	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 21:17	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:17	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 21:17	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 21:17	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 21:17	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 21:17	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 21:17	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 21:17	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 21:17	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 21:17	WG962336
Naphthalene	ND		5.00	1	03/22/2017 21:17	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Styrene	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 21:17	WG962336
Tetrachloroethene	4.66		1.00	1	03/22/2017 21:17	WG962336
Toluene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 21:17	WG962336

jc 4/17/17

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 21:17	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 21:17	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 21:17	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 21:17	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 21:17	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 21:17	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 21:17	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 21:17*	WG962336
(S) Dibromofluoromethane	*100*		*76.0-123*		*03/22/2017 21:17*	WG962336
(S) 4-Bromofluorobenzene	*101*		*80.0-120*		*03/22/2017 21:17*	WG962336

JC 4/17/17

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

Analyte	Result ug/l	Qualifier	RDL ug/l	Dilution	Analysis date / time	Batch
Acetone	ND	UJ JO	50.0	1	03/22/2017 21:38	WG962336
Acrolein	ND	UJ JO	50.0	1	03/22/2017 21:38	WG962336
Acrylonitrile	ND		10.0	1	03/22/2017 21:38	WG962336
Benzene	ND		1.00	1	03/22/2017 21:38	WG962336
Bromobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Bromodichloromethane	ND		1.00	1	03/22/2017 21:38	WG962336
Bromoform	ND		1.00	1	03/22/2017 21:38	WG962336
Bromomethane	ND		5.00	1	03/22/2017 21:38	WG962336
n-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
sec-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
tert-Butylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Carbon tetrachloride	ND		1.00	1	03/22/2017 21:38	WG962336
Chlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Chlorodibromomethane	ND		1.00	1	03/22/2017 21:38	WG962336
Chloroethane	ND		5.00	1	03/22/2017 21:38	WG962336
Chloroform	ND		5.00	1	03/22/2017 21:38	WG962336
Chloromethane	ND		2.50	1	03/22/2017 21:38	WG962336
2-Chlorotoluene	ND		1.00	1	03/22/2017 21:38	WG962336
4-Chlorotoluene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dibromo-3-Chloropropane	ND		5.00	1	03/22/2017 21:38	WG962336
1,2-Dibromoethane	ND		1.00	1	03/22/2017 21:38	WG962336
Dibromomethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,4-Dichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Dichlorodifluoromethane	ND		5.00	1	03/22/2017 21:38	WG962336
1,1-Dichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
cis-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
trans-1,2-Dichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
cis-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
trans-1,3-Dichloropropene	ND		1.00	1	03/22/2017 21:38	WG962336
2,2-Dichloropropane	ND		1.00	1	03/22/2017 21:38	WG962336
Di-isopropyl ether	ND		1.00	1	03/22/2017 21:38	WG962336
Ethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Hexachloro-1,3-butadiene	ND		1.00	1	03/22/2017 21:38	WG962336
Isopropylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
p-Isopropyltoluene	ND		1.00	1	03/22/2017 21:38	WG962336
2-Butanone (MEK)	ND		10.0	1	03/22/2017 21:38	WG962336
Methylene Chloride	ND		5.00	1	03/22/2017 21:38	WG962336
4-Methyl-2-pentanone (MIBK)	ND		10.0	1	03/22/2017 21:38	WG962336
Methyl tert-butyl ether	ND		1.00	1	03/22/2017 21:38	WG962336
Naphthalene	ND		5.00	1	03/22/2017 21:38	WG962336
n-Propylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Styrene	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,1,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2,2-Tetrachloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2-Trichlorotrifluoroethane	ND		1.00	1	03/22/2017 21:38	WG962336
Tetrachloroethene	6.20		1.00	1	03/22/2017 21:38	WG962336
Toluene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,3-Trichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,4-Trichlorobenzene	ND		1.00	1	03/22/2017 21:38	WG962336

JC 4/17/17

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

Analyte	Result	Qualifier	RDL	Dilution	Analysis	Batch
	ug/l		ug/l		date / time	
1,1,1-Trichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
1,1,2-Trichloroethane	ND		1.00	1	03/22/2017 21:38	WG962336
Trichloroethene	ND		1.00	1	03/22/2017 21:38	WG962336
Trichlorofluoromethane	ND		5.00	1	03/22/2017 21:38	WG962336
1,2,3-Trichloropropane	ND		2.50	1	03/22/2017 21:38	WG962336
1,2,4-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,2,3-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
1,3,5-Trimethylbenzene	ND		1.00	1	03/22/2017 21:38	WG962336
Vinyl chloride	ND		1.00	1	03/22/2017 21:38	WG962336
Xylenes, Total	ND		3.00	1	03/22/2017 21:38	WG962336
(S) Toluene-d8	*101*		*80.0-120*		*03/22/2017 21:38*	WG962336
(S) Dibromofluoromethane	*96.1*		*76.0-123*		*03/22/2017 21:38*	WG962336
(S) 4-Bromofluorobenzene	*99.0*		*80.0-120*		*03/22/2017 21:38*	WG962336

JG 4/17/17

3600 Fremont Ave. N.
Seattle, WA 98103
T: (206) 352-3790
F: (206) 352-7178
info@fremontanalytical.com

PES Environmental, Inc.
Matt Dahl
1215 Fourth Avenue, Suite 1350
Seattle, WA 98161

RE: MVSC
Work Order Number: 1704262

June 26, 2017

Attention Matt Dahl:

Fremont Analytical, Inc. received 1 sample(s) on 4/20/2017 for the analyses presented in the following report.

Volatile Organic Compounds by EPA Method TO-15

This report consists of the following:

- Case Narrative
- Analytical Results
- Applicable Quality Control Summary Reports
- Chain of Custody

All analyses were performed consistent with the Quality Assurance program of Fremont Analytical, Inc. Please contact the laboratory if you should have any questions about the results.

Thank you for using Fremont Analytical.

Sincerely,

Chelsea Ward
Project Manager

Date: *06/26/2017*

CLIENT: PES Environmental, Inc.
Project: MVSC
Work Order: 1704262

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1704262-001	SYS-042017	04/20/2017 12:00 PM	04/20/2017 2:15 PM

Note: If no "Time Collected" is supplied, a default of 12:00AM is assigned

Case Narrative

WO#: **1704262**
Date: **6/26/2017**

CLIENT: PES Environmental, Inc.
Project: MVSC

WorkOrder Narrative:
I. SAMPLE RECEIPT:
Samples receipt information is recorded on the attached Sample Receipt Checklist.

II. GENERAL REPORTING COMMENTS:
Air samples are reported in ppbv and ug/m3.

The validity of the analytical procedures for which data is reported in this analytical report is determined by the Laboratory Control Sample (LCS) and the Method Blank (MB). The LCS and the MB are processed with the samples to ensure method criteria are achieved throughout the entire analytical process.

III. ANALYSES AND EXCEPTIONS:
Exceptions associated with this report will be footnoted in the analytical results page(s) or the quality control summary page(s) and/or noted below.

Standard temperature and pressure assumes 24.45 = (25C and 1 atm).

Qualifiers:

* - Flagged value is not within established control limits
B - Analyte detected in the associated Method Blank
D - Dilution was required
E - Value above quantitation range
H - Holding times for preparation or analysis exceeded
I - Analyte with an internal standard that does not meet established acceptance criteria
J - Analyte detected below Reporting Limit
N - Tentatively Identified Compound (TIC)
Q - Analyte with an initial or continuing calibration that does not meet established acceptance criteria (<20%RSD, <20% Drift or minimum RRF)
S - Spike recovery outside accepted recovery limits
ND - Not detected at the Reporting Limit
R - High relative percent difference observed

Acronyms:

%Rec - Percent Recovery
CCB - Continued Calibration Blank
CCV - Continued Calibration Verification
DF - Dilution Factor
HEM - Hexane Extractable Material
ICV - Initial Calibration Verification
LCS/LCSD - Laboratory Control Sample / Laboratory Control Sample Duplicate
MB or MBLANK - Method Blank
MDL - Method Detection Limit
MS/MSD - Matrix Spike / Matrix Spike Duplicate
PDS - Post Digestion Spike
Ref Val - Reference Value
RL - Reporting Limit
RPD - Relative Percent Difference
SD - Serial Dilution
SGT - Silica Gel Treatment
SPK - Spike
Surr - Surrogate

Client: PES Environmental, Inc.
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	04/24/2017	WC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	04/24/2017	WC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	04/24/2017	WC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	04/24/2017	WC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	04/24/2017	WC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	04/24/2017	WC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	04/24/2017	WC
1,2,4-Trimethylbenzene	1.04	5.11	0.300	1.47		EPA-TO-15	04/24/2017	WC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	04/24/2017	WC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	04/24/2017	WC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	04/24/2017	WC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	04/24/2017	WC
1,3,5-Trimethylbenzene	0.395	1.94	0.300	1.47		EPA-TO-15	04/27/2017	WC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	04/24/2017	WC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	04/24/2017	WC
1,4-Dichlorobenzene	0.397	2.39	0.300	1.80		EPA-TO-15	04/24/2017	WC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	04/24/2017	WC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	04/24/2017	WC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	04/24/2017	WC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	04/24/2017	WC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	04/27/2017	WC
Acetone	1.15	2.74	1.00	2.38		EPA-TO-15	04/24/2017	WC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	04/27/2017	WC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	04/24/2017	WC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	04/24/2017	WC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	04/24/2017	WC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	04/24/2017	WC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	04/24/2017	WC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	04/24/2017	WC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	04/24/2017	WC

Client: PES Environmental, Inc.
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	04/24/2017	WC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	04/24/2017	WC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	04/24/2017	WC
Chloroform	0.522	2.55	0.200	0.977		EPA-TO-15	04/24/2017	WC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	04/24/2017	WC
cis-1,2-Dichloroethene	0.256	1.02	0.200	0.793		EPA-TO-15	04/24/2017	WC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	04/24/2017	WC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	04/24/2017	WC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	04/24/2017	WC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	04/24/2017	WC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	04/24/2017	WC
Ethylbenzene	0.827	3.59	0.300	1.30		EPA-TO-15	04/24/2017	WC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	04/24/2017	WC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	04/24/2017	WC
m,p-Xylene	4.98	21.6	0.200	0.868		EPA-TO-15	04/24/2017	WC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	04/24/2017	WC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	04/24/2017	WC
Naphthalene	0.701	3.67	0.300	1.57		EPA-TO-15	04/24/2017	WC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	04/24/2017	WC
o-Xylene	1.23	5.35	0.200	0.868		EPA-TO-15	04/27/2017	WC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	04/27/2017	WC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	04/24/2017	WC
Styrene	0.466	1.99	0.300	1.28		EPA-TO-15	04/24/2017	WC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	04/24/2017	WC
Tetrachloroethene (PCE)	70.3	477	0.300	2.03	E	EPA-TO-15	04/24/2017	WC
Tetrahydrofuran	2.19	6.47	0.500	1.47		EPA-TO-15	04/24/2017	WC
Toluene	4.00	15.1	0.200	0.754		EPA-TO-15	04/24/2017	WC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	04/24/2017	WC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	04/24/2017	WC
Trichloroethene (TCE)	0.229	1.23	0.200	1.07		EPA-TO-15	04/24/2017	WC

Client: **PES Environmental, Inc.**
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.334	1.88	0.300	1.69		EPA-TO-15	04/24/2017	WC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	04/24/2017	WC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	04/24/2017	WC
Surr: 4-Bromofluorobenzene	109 %Rec	--	70-130	--		EPA-TO-15	04/24/2017	WC

NOTES:
E - Estimated value. The amount exceeds the linear working range of the instrument.

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R35787** SampType: **LCS** Units: **ppbv** Prep Date: **4/27/2017** RunNo: **35787**
Client ID: **LCSW** Batch ID: **R35787** Analysis Date: **4/27/2017** SeqNo: **685545**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	4.76	0.500	5.000	0	95.1	70	130				
o-Xylene	4.50	0.200	5.000	0	89.9	70	130				
1,3,5-Trimethylbenzene	4.41	0.300	5.000	0	88.2	70	130				
4-Ethyltoluene	4.56	0.300	5.000	0	91.2	70	130				
4-Methyl-2-pentanone (MIBK)	4.18	1.00	5.000	0	83.6	70	130				
Surr: 4-Bromofluorobenzene	9.93		10.00		99.3	70	130				

Sample ID **MB-R35787** SampType: **MBLK** Units: **ppbv** Prep Date: **4/27/2017** RunNo: **35787**
Client ID: **MBLKW** Batch ID: **R35787** Analysis Date: **4/27/2017** SeqNo: **685546**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acrolein	ND	0.500									
o-Xylene	ND	0.200									
1,3,5-Trimethylbenzene	ND	0.300									
4-Ethyltoluene	ND	0.300									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
Surr: 4-Bromofluorobenzene	9.78		10.00		97.8	70	130				

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R35728** SampType: **LCS** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **LCSW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684199**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	5.59	0.500	5.000	0	112	70	130				
Dichlorodifluoromethane (CFC-12)	5.25	0.300	5.000	0	105	70	130				
Chloromethane	5.43	0.500	5.000	0	109	70	130				
Dichlorotetrafluoroethane (CFC-114)	5.48	0.500	5.000	0	110	70	130				
Vinyl chloride	4.94	0.200	5.000	0	98.8	70	130				
1,3-Butadiene	5.64	0.500	5.000	0	113	70	130				
Bromomethane	5.50	0.500	5.000	0	110	70	130				
Trichlorofluoromethane (CFC-11)	5.41	0.300	5.000	0	108	70	130				
Chloroethane	5.62	0.500	5.000	0	112	70	130				
Acrolein	6.76	0.500	5.000	0	135	70	130				S
1,1-Dichloroethene (DCE)	4.83	0.200	5.000	0	96.5	70	130				
Acetone	5.00	1.00	5.000	0	100	70	130				
Isopropyl Alcohol	5.80	1.00	5.000	0	116	70	130				
Methylene chloride	5.14	1.50	5.000	0	103	70	130				
Carbon disulfide	5.28	1.50	5.000	0	106	70	130				
trans-1,2-Dichloroethene	4.56	0.200	5.000	0	91.1	70	130				
Methyl tert-butyl ether (MTBE)	5.50	0.200	5.000	0	110	70	130				
n-Hexane	5.17	0.200	5.000	0	103	70	130				
1,1-Dichloroethane	4.43	0.200	5.000	0	88.7	70	130				
Vinyl acetate	5.73	1.00	5.000	0	115	70	130				
cis-1,2-Dichloroethene	4.50	0.200	5.000	0	90.0	70	130				
(MEK) 2-Butanone	5.73	0.500	5.000	0	115	70	130				
Ethyl acetate	5.06	1.00	5.000	0	101	70	130				
Chloroform	5.41	0.200	5.000	0	108	70	130				
Tetrahydrofuran	4.20	0.500	5.000	0	84.0	70	130				
1,1,1-Trichloroethane	4.48	0.200	5.000	0	89.5	70	130				
Carbon tetrachloride	5.24	0.200	5.000	0	105	70	130				
1,2-Dichloroethane	4.63	0.200	5.000	0	92.6	70	130				
Benzene	5.02	0.200	5.000	0	100	70	130				
Cyclohexane	5.33	0.200	5.000	0	107	70	130				
Trichloroethene (TCE)	4.82	0.200	5.000	0	96.5	70	130				

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R35728** SampType: **LCS** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **LCSW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684199**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,2-Dichloropropane	5.15	0.500	5.000	0	103	70	130				
Methyl methacrylate	5.20	0.300	5.000	0	104	70	130				
Dichlorobromomethane	5.03	0.300	5.000	0	101	70	130				
1,4-Dioxane	5.35	1.00	5.000	0	107	70	130				
cis-1,3-dichloropropene	4.69	0.500	5.000	0	93.8	70	130				
Toluene	5.66	0.200	5.000	0	113	70	130				
trans-1,3-dichloropropene	4.80	0.500	5.000	0	96.0	70	130				
1,1,2-Trichloroethane (TCA)	4.88	0.500	5.000	0	97.5	70	130				
Tetrachloroethene (PCE)	4.64	0.300	5.000	0	92.8	70	130				
Dibromochloromethane	5.21	0.500	5.000	0	104	70	130				
1,2-Dibromoethane (EDB)	5.18	0.200	5.000	0	104	70	130				
Chlorobenzene	5.19	0.200	5.000	0	104	70	130				
Ethylbenzene	6.36	0.300	5.000	0	127	70	130				
m,p-Xylene	12.7	0.200	10.00	0	127	70	130				
o-Xylene	6.66	0.200	5.000	0	133	70	130				S
Styrene	4.98	0.300	5.000	0	99.6	70	130				
Bromoform	6.07	0.200	5.000	0	121	70	130				
1,1,2,2-Tetrachloroethane	5.96	0.300	5.000	0	119	70	130				
1,3,5-Trimethylbenzene	6.63	0.300	5.000	0	133	70	130				S
1,2,4-Trimethylbenzene	5.37	0.300	5.000	0	107	70	130				
Benzyl chloride	5.63	0.500	5.000	0	113	70	130				
4-Ethyltoluene	6.58	0.300	5.000	0	132	70	130				S
1,3-Dichlorobenzene	5.43	0.300	5.000	0	109	70	130				
1,4-Dichlorobenzene	5.33	0.300	5.000	0	107	70	130				
1,2-Dichlorobenzene	5.38	0.500	5.000	0	108	70	130				
1,2,4-Trichlorobenzene	5.24	0.300	5.000	0	105	70	130				
Hexachlorobutadiene	5.79	1.00	5.000	0	116	70	130				
Naphthalene	5.39	0.300	5.000	0	108	70	130				
2-Hexanone	5.11	1.00	5.000	0	102	70	130				
4-Methyl-2-pentanone (MIBK)	6.90	1.00	5.000	0	138	70	130				S
CFC-113	6.38	0.500	5.000	0	128	70	130				

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R35728** SampType: **LCS** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **LCSW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684199**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Heptane	5.86	0.500	5.000	0	117	70	130				
Surr: 4-Bromofluorobenzene	11.7		10.00		117	70	130				

NOTES:
S - Outlying spike recovery observed (high bias). Detections will be qualified with a *.

Sample ID **MB-R35728** SampType: **MBLK** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **MBLKW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684200**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500									
Dichlorodifluoromethane (CFC-12)	ND	0.300									
Chloromethane	ND	0.500									
Dichlorotetrafluoroethane (CFC-114)	ND	0.500									
Vinyl chloride	ND	0.200									
1,3-Butadiene	ND	0.500									
Bromomethane	ND	0.500									
Trichlorofluoromethane (CFC-11)	ND	0.300									
Chloroethane	ND	0.500									
Acrolein	ND	0.500									
1,1-Dichloroethene (DCE)	ND	0.200									
Acetone	ND	1.00									
Isopropyl Alcohol	ND	1.00									
Methylene chloride	ND	1.50									
Carbon disulfide	ND	1.50									
trans-1,2-Dichloroethene	ND	0.200									
Methyl tert-butyl ether (MTBE)	ND	0.200									
n-Hexane	ND	0.200									
1,1-Dichloroethane	ND	0.200									
Vinyl acetate	ND	1.00									
cis-1,2-Dichloroethene	ND	0.200									
(MEK) 2-Butanone	ND	0.500									

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R35728** SampType: **MBLK** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **MBLKW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684200**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Ethyl acetate	ND	1.00									
Chloroform	ND	0.200									
Tetrahydrofuran	ND	0.500									
1,1,1-Trichloroethane	ND	0.200									
Carbon tetrachloride	ND	0.200									
1,2-Dichloroethane	ND	0.200									
Benzene	ND	0.200									
Cyclohexane	ND	0.200									
Trichloroethene (TCE)	ND	0.200									
1,2-Dichloropropane	ND	0.500									
Methyl methacrylate	ND	0.300									
Dichlorobromomethane	ND	0.300									
1,4-Dioxane	ND	1.00									
cis-1,3-dichloropropene	ND	0.500									
Toluene	ND	0.200									
trans-1,3-dichloropropene	ND	0.500									
1,1,2-Trichloroethane (TCA)	ND	0.500									
Tetrachloroethene (PCE)	ND	0.300									
Dibromochloromethane	ND	0.500									
1,2-Dibromoethane (EDB)	ND	0.200									
Chlorobenzene	ND	0.200									
Ethylbenzene	ND	0.300									
m,p-Xylene	ND	0.200									
o-Xylene	ND	0.200									
Styrene	ND	0.300									
Bromoform	ND	0.200									
1,1,2,2-Tetrachloroethane	ND	0.300									
1,3,5-Trimethylbenzene	ND	0.300									
1,2,4-Trimethylbenzene	ND	0.300									
Benzyl chloride	ND	0.500									
4-Ethyltoluene	ND	0.300									

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **MB-R35728** SampType: **MBLK** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **MBLKW** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684200**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3-Dichlorobenzene	ND	0.300									
1,4-Dichlorobenzene	ND	0.300									
1,2-Dichlorobenzene	ND	0.500									
1,2,4-Trichlorobenzene	ND	0.300									
Hexachlorobutadiene	ND	1.00									
Naphthalene	ND	0.300									
2-Hexanone	ND	1.00									
4-Methyl-2-pentanone (MIBK)	ND	1.00									
CFC-113	ND	0.500									
Heptane	ND	0.500									
Surr: 4-Bromofluorobenzene	9.16		10.00		91.6	70	130				

Sample ID **1704262-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **SYS-042017** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684198**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Propylene	ND	0.500						0		30	
Dichlorodifluoromethane (CFC-12)	ND	0.300						0		30	
Chloromethane	ND	0.500						0		30	
Dichlorotetrafluoroethane (CFC-114)	ND	0.500						0		30	
Vinyl chloride	ND	0.200						0		30	
1,3-Butadiene	ND	0.500						0		30	
Bromomethane	ND	0.500						0		30	
Trichlorofluoromethane (CFC-11)	0.373	0.300						0.3341	10.9	30	
Chloroethane	ND	0.500						0		30	
Acrolein	ND	0.500						0		30	
1,1-Dichloroethene (DCE)	ND	0.200						0		30	
Acetone	1.31	1.00						1.154	12.6	30	
Isopropyl Alcohol	ND	1.00						0		30	
Methylene chloride	ND	1.50						0		30	

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1704262-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **SYS-042017** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684198**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	ND	1.50						0		30	
trans-1,2-Dichloroethene	ND	0.200						0		30	
Methyl tert-butyl ether (MTBE)	ND	0.200						0		30	
n-Hexane	ND	0.200						0		30	
1,1-Dichloroethane	ND	0.200						0		30	
Vinyl acetate	ND	1.00						0		30	
cis-1,2-Dichloroethene	0.234	0.200						0.2565	9.00	30	
(MEK) 2-Butanone	ND	0.500						0		30	
Ethyl acetate	ND	1.00						0		30	
Chloroform	0.537	0.200						0.5224	2.71	30	
Tetrahydrofuran	2.19	0.500						2.192	0.215	30	
1,1,1-Trichloroethane	ND	0.200						0		30	
Carbon tetrachloride	ND	0.200						0		30	
1,2-Dichloroethane	ND	0.200						0		30	
Benzene	0.226	0.200						0.1965	13.8	30	
Cyclohexane	ND	0.200						0		30	
Trichloroethene (TCE)	ND	0.200						0.2287	13.5	30	
1,2-Dichloropropane	ND	0.500						0		30	
Methyl methacrylate	ND	0.300						0		30	
Dichlorobromomethane	ND	0.300						0		30	
1,4-Dioxane	ND	1.00						0		30	
cis-1,3-dichloropropene	ND	0.500						0		30	
Toluene	3.72	0.200						3.997	7.09	30	
trans-1,3-dichloropropene	ND	0.500						0		30	
1,1,2-Trichloroethane (TCA)	ND	0.500						0		30	
Tetrachloroethene (PCE)	69.0	0.300						70.28	1.83	30	E
Dibromochloromethane	ND	0.500						0		30	
1,2-Dibromoethane (EDB)	ND	0.200						0		30	
Chlorobenzene	ND	0.200						0		30	
Ethylbenzene	0.850	0.300						0.8274	2.70	30	
m,p-Xylene	5.05	0.200						4.975	1.53	30	

Work Order: 1704262
CLIENT: PES Environmental, Inc.
Project: MVSC

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1704262-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **4/24/2017** RunNo: **35728**
Client ID: **SYS-042017** Batch ID: **R35728** Analysis Date: **4/24/2017** SeqNo: **684198**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
o-Xylene	1.49	0.200						1.471	1.43	30	*
Styrene	0.469	0.300						0.4664	0.479	30	
Bromoform	ND	0.200						0		30	
1,1,2,2-Tetrachloroethane	ND	0.300						0		30	
1,3,5-Trimethylbenzene	ND	0.300						0		30	
1,2,4-Trimethylbenzene	1.07	0.300						1.039	2.93	30	
Benzyl chloride	ND	0.500						0		30	
4-Ethyltoluene	ND	0.300						0		30	
1,3-Dichlorobenzene	ND	0.300						0		30	
1,4-Dichlorobenzene	0.401	0.300						0.3968	1.07	30	
1,2-Dichlorobenzene	ND	0.500						0		30	
1,2,4-Trichlorobenzene	ND	0.300						0		30	
Hexachlorobutadiene	ND	1.00						0		30	
Naphthalene	0.677	0.300						0.7006	3.48	30	
2-Hexanone	ND	1.00						0		30	
4-Methyl-2-pentanone (MIBK)	ND	1.00						0		30	
CFC-113	ND	0.500						0		30	
Heptane	ND	0.500						0		30	
Surr: 4-Bromofluorobenzene	10.8		10.00		108	70	130		0		

NOTES:
E - Estimated value. The amount exceeds the linear working range of the instrument.
* - Flagged value is not within established control limits.

Sample Log-In Check List

Client Name:	**PES**	Work Order Number:	**1704262**
Logged by:	**Clare Griggs**	Date Received:	**4/20/2017 2:15:00 PM**

Chain of Custody

1.	Is Chain of Custody complete?	Yes ☑	No ☐	Not Present ☐
2.	How was the sample delivered?	Client		

Log In

3.	Coolers are present?	Yes ☐	No ☑	NA ☐
		Air Sample		
4.	Shipping container/cooler in good condition?	Yes ☑	No ☐	
5.	Custody Seals present on shipping container/cooler? (Refer to comments for Custody Seals not intact)	Yes ☐	No ☐	Not Required ☑
6.	Was an attempt made to cool the samples?	Yes ☐	No ☐	NA ☑
7.	Were all items received at a temperature of >0°C to 10.0°C*	Yes ☐	No ☐	NA ☑
8.	Sample(s) in proper container(s)?	Yes ☑	No ☐	
9.	Sufficient sample volume for indicated test(s)?	Yes ☑	No ☐	
10.	Are samples properly preserved?	Yes ☑	No ☐	
11.	Was preservative added to bottles?	Yes ☐	No ☑	NA ☐
12.	Is there headspace in the VOA vials?	Yes ☐	No ☐	NA ☑
13.	Did all samples containers arrive in good condition(unbroken)?	Yes ☑	No ☐	
14.	Does paperwork match bottle labels?	Yes ☑	No ☐	
15.	Are matrices correctly identified on Chain of Custody?	Yes ☑	No ☐	
16.	Is it clear what analyses were requested?	Yes ☑	No ☐	
17.	Were all holding times able to be met?	Yes ☑	No ☐	

Special Handling (if applicable)

18.	Was client notified of all discrepancies with this order?	Yes ☐	No ☐	NA ☑

Person Notified: _____ Date _____

By Whom: _____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person

Regarding: _____

Client Instructions: _____

19. Additional remarks:

Item Information

* Note: DoD/ELAP and TNI require items to be received at 4°C +/- 2°C

Air Chain of Custody Record & Laboratory Services Agreement

Fremont Analytical
3600 Fremont Ave N.
Seattle, WA 98103
Tel: 206-352-3790
Fax: 206-352-7178

Date: 4-20-17 Page: 1 of: 1

Laboratory Project No (Internal): 170A262

Special Remarks:

Project Name: MUSC

Project No: 1358.001.01.007

Location: NORMANDY PARK, WA

Collected by: KARSTEN SPRINGSTEAD

Reports to (PM): MATT DAHL

Email (PM): MDAHL@pesenv.com

Client: PES

Address: 1215 4th Ave STE 1350

City, State, Zip: SEATTLE, WA 98161

Telephone: 206-529-3980

Fax: 206-529-3985

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Sample Volume	Fill Time	Flow Rate	Internal: Initial Evacuation Pressure (mtorr)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis Requested	Internal: Receipt Date	Internal: Final Pressure ("Hg)
1	SYS-042017	15902	4/20/17 1200	S	CAN	6L	Grab		10mtorr 4/18/17 10:00	30 1200	3 1200	TO-15	4/20/17	-2
2														
3														
4														
5														

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac CAN = Canister CYL = High Pressure Cylinder F = Filter S = Sorbent Tube TB = Tedlar Bag

I represent that I am authorized to enter into this Agreement with Fremont Analytical on behalf of the Client named above and that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished	Date/Time	Received	Date/Time
x	4/20/17 1415	x	4/20/17 1415
Relinquished	Date/Time	Received	Date/Time
x		x	

Turn-Around Time:

- [x] Standard
- [ ] 3 Day
- [ ] 2 Day
- [ ] Next Day
- Same Day _____ (specify)

MEMORANDUM

TO: Project File

DATE: May 3, 2017 and June 27, 2017

FROM: Jessie Compeau

SUBJECT: Laboratory Data Validation Review

PROJECT: Manhattan Village Shopping Center - Soil Vapor Extraction System Performance Data Review

PROJECT #: 1358.001.01.007

TASK: April 20, 2017 SVE Stack Air Sample

LAB: Fremont Analytical Service Request No. 1704262

One SVE system stack discharge air sample was collected as part of SVE system startup and O&M at the Manhattan Village Shopping Center in Normandy Park, Washington, on April 20, 2017. The air sample was analyzed for VOCs by USEPA Method TO-15. Laboratory analytical services were provided by Fremont Analytical (Fremont) of Seattle, Washington. Analytical data are reported under Fremont's Project Number 1704262 (Rpt_1704262_MVSC_Final_v2.pdf on June 26, 2017).

The quality assurance review of the laboratory data is summarized below.

DATA QUALIFICATIONS

Guidelines established by USEPA for review of analytical data 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 Organic Superfund Methods Data Review (USEPA, 2017).

DATA VALIDATION

Completeness

All samples were collected and analyzed as requested. No concerns, issues, or anomalies were identified in the laboratory report.

Sample Collection and Preservation

The laboratory supplied a Summa canister (6 Liter) for the air sample. The sample was hand delivered and received in good condition by the laboratory. Summa canisters do not require preservation or cooling. The sample was collected, handled, and delivered in an appropriate

manner. No data qualifications were warranted based upon sampling and preservation techniques.

Holding Times

The analysis for VOCs by TO-15 was performed between four and seven days of sample collection. This is within the 30-day recommended holding time limit for air samples collected in a Summa canister. No data was qualified based upon holding times.

Initial and Continuing Calibration

Initial and continuing calibration data for this project are retained by the laboratory and available for review if necessary. The case narrative did not indicate any issues with calibration; therefore no qualifications were warranted.

Method Blank Results

A laboratory method blank was included with the analytical batch per method requirement. The method blank results did not report any compounds at concentrations at or above the MRLs.

Trip Blank Results

A trip blank was not required for the VOCs by TO-15 analyses. No qualifications were warranted due to the lack of a trip blank for this method.

Field Duplicate Analyses

No field duplicates were required or collected during this field event.

Laboratory Duplicate/Replicate Analyses

A laboratory replicate was performed on sample SYS-042017. The relative percent differences (RPDs) for these all target compounds were within the laboratory control limits (30% RPD).

Surrogate Recoveries

The surrogate percent recovery (% R) results for the VOCs by TO-15 air sample, method blank, duplicate/replicate and laboratory control sample were within the laboratory surrogate control limits of 70 -130% R. No data qualifications were warranted.

Laboratory Control Samples

One laboratory control sample (LCS) was run for the VOCs by TO-15 analytical batch. The LCS was run at the appropriate frequency for this project. The LCS recovery results for all control compounds met the % R acceptance criteria of 70 -130% with the following exceptions:

LCS spike compounds acrolein, 4-ethyltoluene, and 4-methyl-2-pentanone % Rs are above control limit criteria. No action was taken since these compounds are not detected in the associated sample.

LCS spike compounds 1,3,5-trimethylbenzne and o-xylene % Rs are above control limit criteria and also detected in the associated sample. The associated sample and LCS were reanalyzed for a limited list of compounds on 4/27/17. No action was taken since the o-xylene and 1,3,5-trimethylbenzne are inside laboratory control limit criteria and results from the 4/27/17 run are reported.

Matrix Spike/Matrix Spike Duplicates

A matrix spike/matrix spike duplicate (MS/MSD) is not required for the VOCs by TO-15 method.

Other Quality Control Issues

No other laboratory quality control issues were identified in the laboratory report.

Quantitation Limits

Results of the VOCs by TO-15 analysis were reported based on laboratory MRLs (assuming standard temperature and pressure is equal to 24.45) and reported in units of ppbv and $\mu g/m^3$ with the following discussion:

Initially sample SYS-042017 was analyzed on 4/24/17 at the highest volume (400 cubic centimeters (cc) injected). Then, due to an elevated target compound result (tetrachloroethene (PCE)), sample SYS-042017 was re-analyzed on 4/25/17 at the lowest volume (25 cc injection). PES, after receipt of May 2017 sampling results, reviewed historical results, requested that Fremont review, and confirm historical tetrachloroethene (PCE) results. Fremont identified an internal dilution factor reporting issue on sample SYS-042017 PCE result for April 2017 data. Fremont indicated that the instrument was adjusted for the lowest volume but actually ran the sample at the highest volume. Fremont confirmed that the PCE result in sample SYS-042017 is 70.3 ppbv, exceeding the linear range, and qualified (E) by the laboratory. Fremont reissued the report to reflect the corrected result and will report any other dilution factor discrepancies during ongoing review of historical data. **Sample SYS-042017 PCE result is estimated and qualified (J) because the PCE detection exceeded the calibration range.**

The MRLs indicate the minimum quantity of a target analyte that can be confidently determined by the reference method. The MRLs were acceptable for the project; therefore, no data qualifications were warranted.

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
1,1,1-Trichloroethane	<0.200	<1.09	0.200	1.09		EPA-TO-15	04/24/2017	WC
1,1,2,2-Tetrachloroethane	<0.300	<2.06	0.300	2.06		EPA-TO-15	04/24/2017	WC
CFC-113	<0.500	<3.83	0.500	3.83		EPA-TO-15	04/24/2017	WC
1,1,2-Trichloroethane (TCA)	<0.500	<2.73	0.500	2.73		EPA-TO-15	04/24/2017	WC
1,1-Dichloroethane	<0.200	<0.810	0.200	0.810		EPA-TO-15	04/24/2017	WC
1,1-Dichloroethene (DCE)	<0.200	<0.793	0.200	0.793		EPA-TO-15	04/24/2017	WC
1,2,4-Trichlorobenzene	<0.300	<2.23	0.300	2.23		EPA-TO-15	04/24/2017	WC
1,2,4-Trimethylbenzene	1.04	5.11	0.300	1.47		EPA-TO-15	04/24/2017	WC
1,2-Dibromoethane (EDB)	<0.200	<1.54	0.200	1.54		EPA-TO-15	04/24/2017	WC
1,2-Dichlorobenzene	<0.500	<3.01	0.500	3.01		EPA-TO-15	04/24/2017	WC
1,2-Dichloroethane	<0.200	<0.809	0.200	0.809		EPA-TO-15	04/24/2017	WC
1,2-Dichloropropane	<0.500	<2.31	0.500	2.31		EPA-TO-15	04/24/2017	WC
1,3,5-Trimethylbenzene	0.395	1.94	0.300	1.47		EPA-TO-15	04/27/2017	WC
1,3-Butadiene	<0.500	<1.11	0.500	1.11		EPA-TO-15	04/24/2017	WC
1,3-Dichlorobenzene	<0.300	<1.80	0.300	1.80		EPA-TO-15	04/24/2017	WC
1,4-Dichlorobenzene	0.397	2.39	0.300	1.80		EPA-TO-15	04/24/2017	WC
1,4-Dioxane	<1.00	<3.60	1.00	3.60		EPA-TO-15	04/24/2017	WC
(MEK) 2-Butanone	<0.500	<1.47	0.500	1.47		EPA-TO-15	04/24/2017	WC
2-Hexanone	<1.00	<4.10	1.00	4.10		EPA-TO-15	04/24/2017	WC
Isopropyl Alcohol	<1.00	<2.46	1.00	2.46		EPA-TO-15	04/24/2017	WC
4-Methyl-2-pentanone (MIBK)	<1.00	<4.10	1.00	4.10		EPA-TO-15	04/27/2017	WC
Acetone	1.15	2.74	1.00	2.38		EPA-TO-15	04/24/2017	WC
Acrolein	<0.500	<1.15	0.500	1.15		EPA-TO-15	04/27/2017	WC
Benzene	<0.200	<0.639	0.200	0.639		EPA-TO-15	04/24/2017	WC
Benzyl chloride	<0.500	<2.59	0.500	2.59		EPA-TO-15	04/24/2017	WC
Dichlorobromomethane	<0.300	<2.01	0.300	2.01		EPA-TO-15	04/24/2017	WC
Bromoform	<0.200	<2.07	0.200	2.07		EPA-TO-15	04/24/2017	WC
Bromomethane	<0.500	<1.94	0.500	1.94		EPA-TO-15	04/24/2017	WC
Carbon disulfide	<1.50	<4.67	1.50	4.67		EPA-TO-15	04/24/2017	WC
Carbon tetrachloride	<0.200	<1.26	0.200	1.26		EPA-TO-15	04/24/2017	WC

JC 6/27/17

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Volatile Organic Compounds by EPA Method TO-15

Analyte	Concentration (ppbv)	Concentration (ug/m³)	Reporting Limit (ppbv)	Reporting Limit (ug/m³)	Qual	Method	Date/Analyst	
Chlorobenzene	<0.200	<0.921	0.200	0.921		EPA-TO-15	04/24/2017	WC
Dibromochloromethane	<0.500	<4.26	0.500	4.26		EPA-TO-15	04/24/2017	WC
Chloroethane	<0.500	<1.32	0.500	1.32		EPA-TO-15	04/24/2017	WC
Chloroform	0.522	2.55	0.200	0.977		EPA-TO-15	04/24/2017	WC
Chloromethane	<0.500	<1.03	0.500	1.03		EPA-TO-15	04/24/2017	WC
cis-1,2-Dichloroethene	0.256	1.02	0.200	0.793		EPA-TO-15	04/24/2017	WC
cis-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	04/24/2017	WC
Cyclohexane	<0.200	<0.688	0.200	0.688		EPA-TO-15	04/24/2017	WC
Dichlorodifluoromethane (CFC-12)	<0.300	<1.48	0.300	1.48		EPA-TO-15	04/24/2017	WC
Dichlorotetrafluoroethane (CFC-114)	<0.500	<3.50	0.500	3.50		EPA-TO-15	04/24/2017	WC
Ethyl acetate	<1.00	<3.60	1.00	3.60		EPA-TO-15	04/24/2017	WC
Ethylbenzene	0.827	3.59	0.300	1.30		EPA-TO-15	04/24/2017	WC
Heptane	<0.500	<2.01	0.500	2.01		EPA-TO-15	04/24/2017	WC
Hexachlorobutadiene	<1.00	<10.7	1.00	10.7		EPA-TO-15	04/24/2017	WC
m,p-Xylene	4.98	21.6	0.200	0.868		EPA-TO-15	04/24/2017	WC
Methyl methacrylate	<0.300	<1.23	0.300	1.23		EPA-TO-15	04/24/2017	WC
Methylene chloride	<1.50	<5.21	1.50	5.21		EPA-TO-15	04/24/2017	WC
Naphthalene	0.701	3.67	0.300	1.57		EPA-TO-15	04/24/2017	WC
n-Hexane	<0.200	<0.705	0.200	0.705		EPA-TO-15	04/24/2017	WC
o-Xylene	1.23	5.35	0.200	0.868		EPA-TO-15	04/27/2017	WC
4-Ethyltoluene	<0.300	<1.47	0.300	1.47		EPA-TO-15	04/27/2017	WC
Propylene	<0.500	<0.861	0.500	0.861		EPA-TO-15	04/24/2017	WC
Styrene	0.466	1.99	0.300	1.28		EPA-TO-15	04/24/2017	WC
Methyl tert-butyl ether (MTBE)	<0.200	<0.721	0.200	0.721		EPA-TO-15	04/24/2017	WC
Tetrachloroethene (PCE)	70.3 J	477	0.300	2.03	E	EPA-TO-15	04/24/2017	WC
Tetrahydrofuran	2.19	6.47	0.500	1.47		EPA-TO-15	04/24/2017	WC
Toluene	4.00	15.1	0.200	0.754		EPA-TO-15	04/24/2017	WC
trans-1,2-Dichloroethene	<0.200	<0.793	0.200	0.793		EPA-TO-15	04/24/2017	WC
trans-1,3-dichloropropene	<0.500	<2.27	0.500	2.27		EPA-TO-15	04/24/2017	WC
Trichloroethene (TCE)	0.229	1.23	0.200	1.07		EPA-TO-15	04/24/2017	WC

JC 6/27/17

Fremont Analytical

Client: PES Environmental, Inc.
WorkOrder: 1704262
Project: MVSC

Client Sample ID: SYS-042017
Lab ID: 1704262-001A
Sample Type: Summa Canister

Date Sampled: 4/20/2017
Date Received: 4/20/2017

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Trichlorofluoromethane (CFC-11)	0.334	1.88	0.300	1.69		EPA-TO-15	04/24/2017	WC
Vinyl acetate	<1.00	<3.52	1.00	3.52		EPA-TO-15	04/24/2017	WC
Vinyl chloride	<0.200	<0.511	0.200	0.511		EPA-TO-15	04/24/2017	WC
Surr: 4-Bromofluorobenzene	109 %Rec	--	70-130	--		EPA-TO-15	04/24/2017	WC

NOTES:
E - Estimated value. The amount exceeds the linear working range of the instrument.

jc 6/27/17

ATTACHMENT C
WASTE DISPOSAL DOCUMENTATION

This Shipping Order

must be legibly filled in, in Ink Indelible Pencil, or in Carbon, and retained by the agent

Shipper No. 017050

Carrier No. _____

Page _____ of _____

_____ (Name of carrier) (SCAC)

Date Dec. 19-14

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec 1.

TO:
Consignee Marine Maintenance

Street 1516 S. Gravelly ST

City Sea. State Wa. Zip Code 98108

FROM:
Shipper X(P & [illegible], FES

Street [illegible]

City _____ State _____ Zip Code _____

24 hr. Emergency Contact Tel. No. 800-540-7491

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
		Ballast Water	1410 Gallons			

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labeled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

_____ Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

_____ (Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.
Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER X17825 1st Ave S Normandy Park

PER [illegible]

DATE _____

CARRIER MARINE VACUUM SERVICE, INC.

PER _____

DATE Dec. 19-14

2

Permanent post-office address of shipper.

STYLE F375-4 © 2012 LABELMASTER® (800) 621-5808 www.labelmaster.com

*** 24 HOUR EMERGENCY RESPONSE, CALL (877) 577-2669 ***

SHIPPING PAPER

Lading Manifest: 590199-15

DELIVERY DATE	JOB # 2096723
SHIPPER / CUSTOMER: Harris Family LTD STRIP MALL VACANT LAND	POINT OF CONTACT: Matt Dahl
ADDRESS: 17817 - 1725 1ST AVE S.	PHONE #: (206)529-3980x103
CITY, STATE, ZIP: NORMANDY PARK WA 98148	
CARRIER / TRANSPORTER: BURLINGTON ENVIRONMENTAL, LLC	PHONE #: (253)383-3044
CONSIGNEE / FACILITY: BURLINGTON ENVIRONMENTAL, LLC.	POINT OF CONTACT
ADDRESS: 20245 77TH AVENUE SOUTH	PHONE #: (253)872-8030
CITY, STATE, ZIP: KENT , WA 98032	

HM	US DOT Description *(Including Proper Shipping Name, Hazard Class, and ID Number)*	Containers No.	Containers Type	Total Quantity	UOM
A	MATERIAL NOT REGULATED BY DOT (DRILLING DECON WATER)	1	TT	2558	G
B					
C	86641				
D					

Special Handling Instruction and Additional Information:

a) 699686-00 - DRILLING DECON WATER / WELL DEVELOPMENT WATER - WATB05 (11)

Placards Provided YES_____ NO_____

SHIPPER'S CERTIFICATION: "I hereby declare that the contents of this consignment are fully and accurately described above by proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations." I also certify that all times listed above are true and correct.

		MONTH	DAY	YEAR
(SHIPPER) PRINT OR TYPE NAME: X Chris DeBoer	SIGNATURE: X Chris DeBoer	05	20	15
(CARRIER/TRANSPORTER) PRINT OR TYPE NAME: X Jim Hobbs	SIGNATURE: X	05	20	15
(CONSIGNEE/FACILITY) PRINT OR TYPE NAME: X Cassandra Gallegos	SIGNATURE: X CONSIGNEE	5	20	15

This Memorandum

is an acknowledgment that a Bill of Lading has been issued and is not Original Bill of Lading, nor a copy or duplicate, covering the property named herein, and is intended solely for filing or record.

Shipper No. 14622

Carrier No. D6

Page 1 of 1

Marine Vacuum Service Inc.
(Name of carrier) (SCAC)

Date 1-18-20

On Collect on Delivery shipments, the letters "COD" must appear before consignee's name or as otherwise provided in Item 430, Sec.1.

TO:
Consignee Marine Vacuum Service Inc.
Street 1516 South Graham Street
City Seattle State WA Zip Code 98108

FROM:
Shipper PES Environmental
Street 17821 131 Ave S
City Burien State WA Zip Code
ChemTel 1-800-255-3924
24 hr. Emergency Contact Tel. No. Contract MIS3827926

Route

Vehicle Number

No. of Units & Container Type	HM	BASIC DESCRIPTION UN or NA Number, Proper Shipping Name, Hazard Class, Packing Group	TOTAL QUANTITY (Weight, Volume, Gallons, etc.)	WEIGHT (Subject to Correction)	RATE	CHARGES (For Carrier Use Only)
1 TT	X	(DOT Spec Tank Required) UN1863 Fuel, Aviation, Turbin Engine, Class 3, PG I				
1 TT	X	(DOT Spec Tank Required) UN1203 Gasoline, Mixture Class 3, PG II				
1 TT	X	(DOT Spec Tank Required) UN1203 Gasoline, Class 3, PG II				
1 TT	X	NA1993 Diesel Mixture, Class 3, PG III				
1 TT	X	NA1993 Diesel, Class 3, PG III				
1 TT	X	NA1270 Petroleum Oil, Class 3, PG I				
1 TT	X	NA1270 Petroleum Oil, Mixture, Class 3, PG I				
1 TT		City Waste Water Non Reg by DOT				
1 TT		Waste Water Non Reg by DOT	1,500	gallons		
1 TT		Marine Vessel Sewage Non Reg by DOT				
1 TT		Street Waste Storm Pipe Cleaning Non Reg by DOT				

PLACARDS TENDERED: YES ☐ NO ☐

Note — (1) Where the rate is dependent on value, shippers are required to state specifically in writing the agreed or declared value of the property, as follows: "The agreed or declared value of the property is hereby specifically stated by the shipper to be not exceeding _____ per _____."
(2) Where the applicable tariff provisions specify a limitation of the carrier's liability absent a release or a value declaration by the shipper and the shipper does not release the carrier's liability or declare a value, the carrier's liability shall be limited to the extent provided by such provisions. See NMFC Item 172.
(3) Commodities requiring special or additional care or attention in handling or stowing must be so marked and packaged as to ensure safe transportation. See Section 2(e) of Item 360, Bills of Lading, Freight Bills and Statements of Charges and Section 1(a) of the Contract Terms and Conditions for a list of such articles.

I hereby declare that the contents of this consignment are fully and accurately described above by the proper shipping name and are classified, packaged, marked and labelled/placarded, and are in all respects in proper condition for transport according to applicable international and national governmental regulations.

Signature

REMIT C.O.D. TO:
ADDRESS

COD Amt: $

C.O.D. FEE:
PREPAID ☐
COLLECT ☐ $

Subject to Section 7 of the conditions, if this shipment is to be delivered to the consignee without recourse on the consignor, the consignor shall sign the following statement:
The carrier shall not make delivery of this shipment without payment of freight and all other lawful charges.

(Signature of Consignor)

TOTAL CHARGES $

FREIGHT CHARGES
FREIGHT PREPAID except when box at right is checked ☐ Check box if charges are to be collect

RECEIVED, subject to the classifications and tariffs in effect on the date of the issue of this Bill of Lading, the property described above in apparent good order, except as noted (contents and condition of contents of packages unknown), marked, consigned, and destined as indicated above which said carrier (the word carrier being understood throughout this contract as meaning any person or corporation in possession of the property under the contract) agrees to carry to its usual place of delivery at said destination, if on its route, otherwise to deliver to another carrier on the route to said destination. It is mutually agreed as to each carrier of all or any of, said property over all or any portion of said route to destination and as to each party at any time interested in all or any said property, that every service to be performed hereunder shall be subject to all the bill of lading terms and conditions in the governing classification on the date of shipment.

Shipper hereby certifies that he is familiar with all the lading terms and conditions in the governing classification and the said terms and conditions are hereby agreed to by the shipper and accepted for himself and his assigns.

SHIPPER

PER

CARRIER

PER

DATE 1-18-2019

4

Permanent post-office address of shipper.

PRINTED ON RECYCLED PAPER USING SOYBEAN INK PRINTED WITH SOY INK

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

October 29, 2014

Mr. Stanley Harris
711 S 234th Pl
Des Moines, WA 98198

Mr. Robert DiJulio
Wolfstone, Panchot & Bloch, P.S., Inc
1111 Third Avenue, Suite 1800
Seattle, WA 98101

Re: Request for Contained-Out Determination, Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington

References: (a) Letter Report, M. Dahl (PES) to D. Yasuda (Ecology), dated October 14, 2014, Request for Contained Out Determination, Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington

Dear Mr. Harris and Mr. DiJulio:

The Washington State Department of Ecology (Ecology) received a contained-out determination request (reference a) from your environmental consultant, PES Environmental, Inc., on October 14, 2014, for soil contaminated with F002[1] listed waste constituents generated or to-be generated during site cleanup activities at the Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington.

Ecology received this information to determine, if excavated, the contaminated soils are exempt from management as dangerous wastes under the "Contained-In Policy." Based on the information provided and reviewed to date, Ecology's regulatory determination is as follows:

The approximately **365 tons** of F002 (PCE) listed waste contaminated soils from the installation of 36 air sparing and vapor extraction wells AND approximately 730 linear feet of connecting pipe trench (reference a) do not require management as dangerous wastes and Ecology will not require disposal of these contaminated soils as F002 (PCE) listed wastes at a RCRA permitted dangerous waste treatment, storage and disposal (TSD) facility, provided all of the conditions below are implemented.

For the approximately **365 tons** of F002 listed waste contaminated soils **(attached Figure C-2)**, Ecology understands that these soils do not designate under federal characteristics (Washington Administrative Code [WAC] 173-303-090) or State-only criteria (WAC 173-303-100). For these **365 tons** of F002 listed waste contaminated soils, you or your consultant shall comply with the following requirements:

a. Ensure **no standing water** is present within any container holding the PCE contaminated soil. All water must be removed to the maximum extent possible from each of these containers and managed as F002 listed dangerous wastes without exception. The contaminated groundwater

[1] Perchloroethylene (PCE)

or infiltrated surface water should be removed from the contaminated soils prior to shipment to the landfill. Contaminated water cannot be disposed of into a RCRA Subtitle D (or C) landfill directly.

b. This Ecology approval letter does not pertain to any decontamination water or groundwater.

c. Deliver these contaminated soils directly to a permitted RCRA Subtitle D landfill (outside Washington State) such as the Columbia Ridge Solid Waste Landfill in Arlington, Oregon OR a Washington State solid waste landfill permitted under Chapter 173-351 WAC such as the Roosevelt Regional Landfill.

d. Do not consolidate these contaminated soils with other soils that do not pertain to this contained out determination.

e. Do not offload these contaminated soils at any temporary staging/transfer/reloading area.

f. These contaminated soils shall not be used as fill at the Site or any other Property.

g. Plastic line the containers or delivery trucks for direct delivery to the solid waste landfill.

h. Cover all excavated soils and take adequate measures to prevent spills and dispersion due to wind or rain erosion.

i. Take measures to prevent unauthorized contact with these soils at all times.

j. Provide instructions to the landfill operator that these soils are not to be used for daily, intermediate, or final cover.

k. Provide copies of all soil analytical data to the landfill operator, upon request.

l. Send copies of all signed solid waste landfill receipt records for these contaminated soils to Ecology, attention of Dean Yasuda, within 15 days of your receipt. Also indicate the total volume/weight of all contaminated soils disposed of under the Ecology approved contained-in determination, and indicate if this total amount is above, below or equal to the total amount approved by this Ecology letter. This is an important verification step for you and your environmental consultant to follow in order for this Ecology decision to be valid.

m. Do not send these contaminated soils to any incinerator, thermal desorption unit, or recycling facility unless that facility is a RCRA Subtitle C permitted hazardous waste TSD facility.

n. Dispose of the **365 tons** of PCE-contaminated soils by January 3, 2015. This contained-out determination for these contaminated soils is no longer valid after January 3, 2015. After this date, you are required to manage these contaminated soils as dangerous wastes.

o. This written decision for the contaminated soils does not apply to any other area or other media. Local agencies have the authority to impose additional requirements on this waste stream.

p. Notify Ecology immediately once you are aware that to-be-excavated soils under this letter will exceed the permitted amount. Ecology needs to make sure that the additional soil qualifies for this contained out determination.

This letter only addresses the procedures for disposal of the above described PCE contaminated soils generated at the Site in accordance with the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC). This letter is not an Ecology approval for dangerous waste designation process or disposal of soils that may be generated in the future or already excavated outside the locations for which this contained out approval letter applies. Designation (as dangerous wastes or non-dangerous wastes) and proper disposal of those "outside" soils is a responsibility of the generator of excavated soils.

This letter is not a No Further Action (NFA) letter and not written approval for any cleanup action plan you may have submitted. Regulatory decisions regarding the cleanup action, applicable soil and groundwater cleanup levels and any other cleanup issues must comply with the requirements under Ecology Model Toxics Control Act (MTCA).

If you fail to comply with the terms of this letter, Ecology may issue an administrative order and/or penalty as provided by the Revised Code of Washington (RCW) Sections 70.105.080 and/or .095 (Hazardous Waste Management Act).

If you have any questions concerning this letter, please feel free to contact me at (425) 649-7264 or by email at dyas461@ecy.wa.gov.

Sincerely,

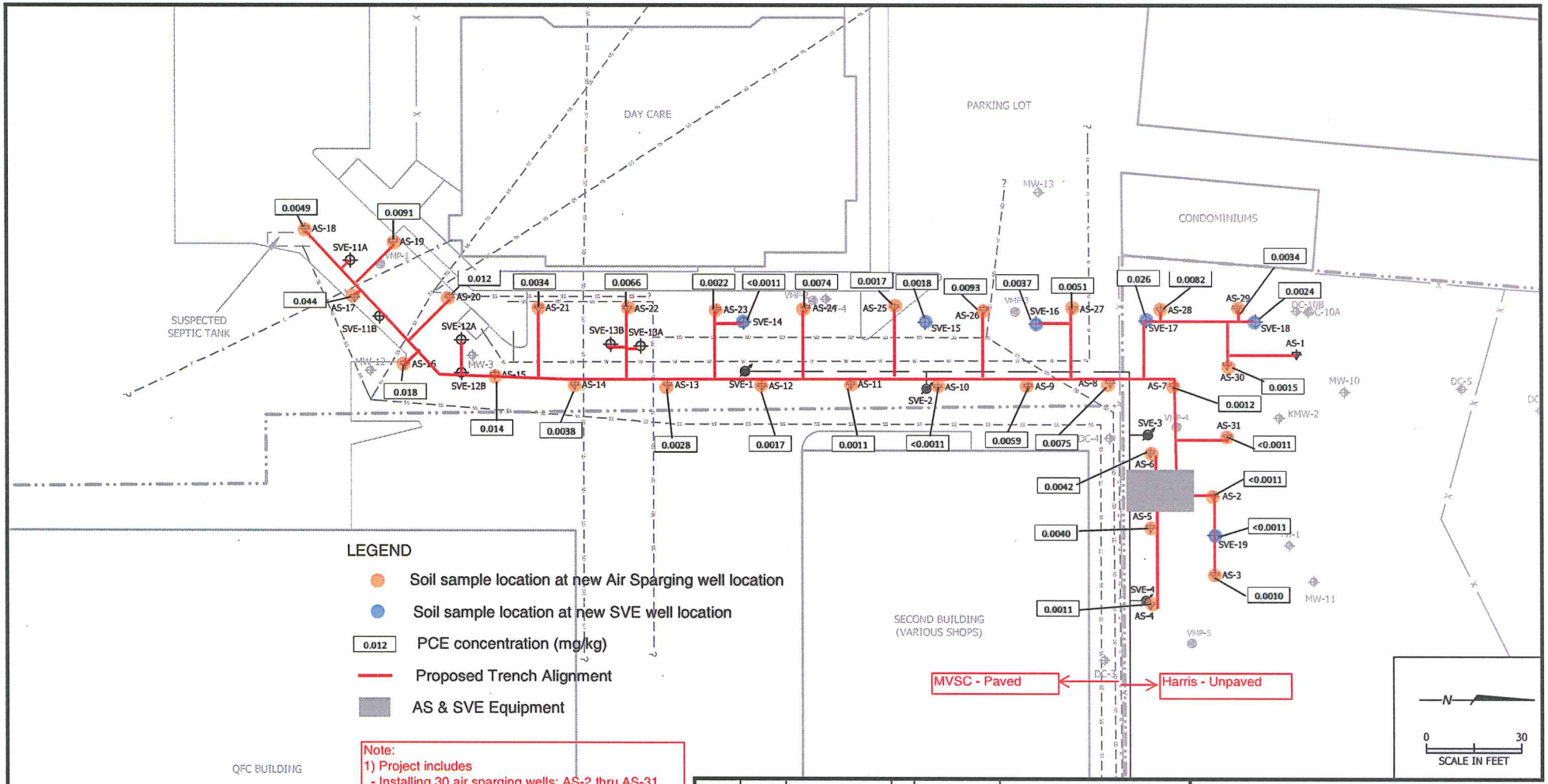
Dean Yasuda

Dean Yasuda, PE
Hazardous Waste and Toxics Reduction Program

By certified mail: 7013 2250 0000 3614 6147 & 7013 2250 0000 3614 6154

cc: Matthew Dahl, PES Environmental

ecc: Yolanda Pon, Seattle-King County Public Health (Yolanda.Pon@kingcounty.gov)
Lisa Brown, Ecology-ERO
Greg Caron, Ecology-CRO
Mindy Collins, Ecology-BFO
Samuel Iwenofu, Ecology-SWRO
Byung Maeng, Ecology-NWRO
Dale Myers, Ecology-NWRO
HZW 5.4.1 WAH000028116



LEGEND

- Soil sample location at new Air Sparging well location
- Soil sample location at new SVE well location
- 0.012 PCE concentration (mg/kg)
- Proposed Trench Alignment
- AS & SVE Equipment

Note:
1) Project includes
 - Installing 30 air sparging wells: AS-2 thru AS-31
 - Installing 6 SVE wells: SVE-14 thru SVE-19
 - Installing approx. 730 feet of trenching to connect the 36 new wells, 6 existing SVE wells (SVE-11A, -11B, -12A, -12B, -13A, -13B), and 1 existing air sparging well (AS-1).
2) Existing SVE wells SVE-1 through SVE-10 pipes and trenches were constructed in 2009.
3) If multiple sampling depths - highest concentration shown on drawing.

NOTES:
1. AS WELLS ON HARRIS PROPERTY INCLUDE AN ESTIMATED 13 FT ZONE OF INFLUENCE.
2. AS WELLS ON MVSC PROPERTY INCLUDE AN ESTIMATED 15 FT ZONE OF INFLUENCE.
3. SVE WELLS INCLUDE AN ESTIMATED 40 FT RADIUS OF INFLUENCE. THE COMBINED SVE INFLUENCE AREA INCLUDES ALL 22 OF THE SVE WELLS (SVE-1 THROUGH SVE-19).

No.	Date	Revisions	By
0	7/22/14	Issued for Bid	

Scale: AS NOTED
Designed by: MD
Drawn by: BP
Checked by: BO
Approved by: MD

MATTHEW V. DAHL STATE OF WASHINGTON 50366 REGISTERED PROFESSIONAL ENGINEER

PES Environmental, Inc.
Engineering & Environmental Services

Well and Trench Layout
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

Sheet C-2

JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE
1358.001.01.005	1358-00101005_SVE_r1_C1-C5	BO	7/14

STATE OF WASHINGTON
DEPARTMENT OF ECOLOGY
Northwest Regional Office • 3190 160th Ave SE • Bellevue, WA 98008-5452 • 425-649-7000
711 for Washington Relay Service • Persons with a speech disability can call 877-833-6341

November 12, 2014

Mr. Stanley Harris
711 S 234th Pl
Des Moines, WA 98198

Mr. Robert DiJulio
Wolfstone, Panchot & Bloch, PS, Inc
1111 Third Avenue, Suite 1800
Seattle, WA 98101

Re: Second Request for Contained-Out Determination, Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington - WAH000028116, FSID NO. 4181060

References: (a) Letter Report, M. Dahl (PES) to D. Yasuda (Ecology), dated November 3, 2014, Request for Contained Out Determination, Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington

Dear Mr. Harris and Mr. DiJulio:

The Washington State Department of Ecology (Ecology) received a second contained-out determination request (reference a) from your environmental consultant, PES Environmental, Inc., on November 3, 2014, for soil contaminated with F002[1] listed waste constituents generated or to-be generated during site cleanup activities at the Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington.

Ecology received this information to determine, if excavated, the contaminated soils are exempt from management as dangerous wastes under the "Contained-In Policy." Based on the information provided and reviewed to date, Ecology's regulatory determination is as follows:

The approximately **35 tons** of F002 (PCE) listed waste contaminated soils from the installation of remediation air sparging (AS9 through AS27) and soil-vapor extraction (SVE14 through SVE16) wells (reference a) do not require management as dangerous wastes and Ecology will not require disposal of these contaminated soils as F002 (PCE) listed wastes at a RCRA permitted dangerous waste treatment, storage and disposal (TSD) facility, provided all of the conditions below are implemented.

For the approximately **35 tons** of F002 listed waste contaminated soils **(attached Figure C-2)**, Ecology understands that these soils do not designate under federal characteristics (Washington Administrative Code [WAC] 173-303-090) or State-only criteria (WAC 173-303-100). For these **35 tons** of F002 listed waste contaminated soils, you or your consultant shall comply with the following requirements:

a. Ensure **no standing water** is present within any container holding the PCE contaminated soil. All water must be removed to the maximum extent possible from each of these containers and

[1] Perchloroethylene (PCE)

managed as F002 listed dangerous wastes without exception. The contaminated groundwater or infiltrated surface water should be removed from the contaminated soils prior to shipment to the landfill. Contaminated water cannot be disposed of into a RCRA Subtitle D (or C) landfill directly.

b. This Ecology approval letter does not pertain to any decontamination water or groundwater.

c. Deliver these contaminated soils directly to a permitted RCRA Subtitle D landfill (outside Washington State) such as the Columbia Ridge Solid Waste Landfill in Arlington, Oregon OR a Washington State solid waste landfill permitted under Chapter 173-351 WAC such as the Roosevelt Regional Landfill.

d. Do not consolidate these contaminated soils with other soils that do not pertain to this contained out determination.

e. Do not offload these contaminated soils at any temporary staging/transfer/reloading area.

f. These contaminated soils shall not be used as fill at the Site or any other Property.

g. Plastic line the containers or delivery trucks for direct delivery to the solid waste landfill.

h. Cover all excavated soils and take adequate measures to prevent spills and dispersion due to wind or rain erosion.

i. Take measures to prevent unauthorized contact with these soils at all times.

j. Provide instructions to the landfill operator that these soils are not to be used for daily, intermediate, or final cover.

k. Provide copies of all soil analytical data to the landfill operator, upon request.

l. Send copies of all signed solid waste landfill receipt records for these contaminated soils to Ecology, attention of Dean Yasuda, within 15 days of your receipt. Also indicate the total volume/weight of all contaminated soils disposed of under the Ecology approved contained-in determination, and indicate if this total amount is above, below or equal to the total amount approved by this Ecology letter. This is an important verification step for you and your environmental consultant to follow in order for this Ecology decision to be valid.

m. Do not send these contaminated soils to any incinerator, thermal desorption unit, or recycling facility unless that facility is a RCRA Subtitle C permitted hazardous waste TSD facility.

n. Dispose of the **35 tons** of PCE-contaminated soils by January 3, 2015. This contained-out determination for these contaminated soils is no longer valid after January 3, 2015. After this date, you are required to manage these contaminated soils as dangerous wastes.

o. This written decision for the contaminated soils does not apply to any other area or other media. Local agencies have the authority to impose additional requirements on this waste stream.

p. Notify Ecology immediately once you are aware that to-be-excavated soils under this letter will exceed the permitted amount. Ecology needs to make sure that the additional soil qualifies for this contained out determination.

This letter only addresses the procedures for disposal of the above described PCE contaminated soils generated at the Site in accordance with the Washington State Dangerous Waste Regulations (Chapter 173-303 WAC). This letter is not an Ecology approval for dangerous waste designation process or disposal of soils that may be generated in the future or already excavated outside the locations for which this contained out approval letter applies. Designation (as dangerous wastes or non-dangerous wastes) and proper disposal of those "outside" soils is a responsibility of the generator of excavated soils.

This letter is not a No Further Action (NFA) letter and not written approval for any cleanup action plan you may have submitted. Regulatory decisions regarding the cleanup action, applicable soil and groundwater cleanup levels and any other cleanup issues must comply with the requirements under Ecology Model Toxics Control Act (MTCA).

If you fail to comply with the terms of this letter, Ecology may issue an administrative order and/or penalty as provided by the Revised Code of Washington (RCW) Sections 70.105.080 and/or .095 (Hazardous Waste Management Act).

If you have any questions concerning this letter, please feel free to contact me at (425) 649-7264 or by email at dyas461@ecy.wa.gov.

Sincerely,

Dean Yasuda

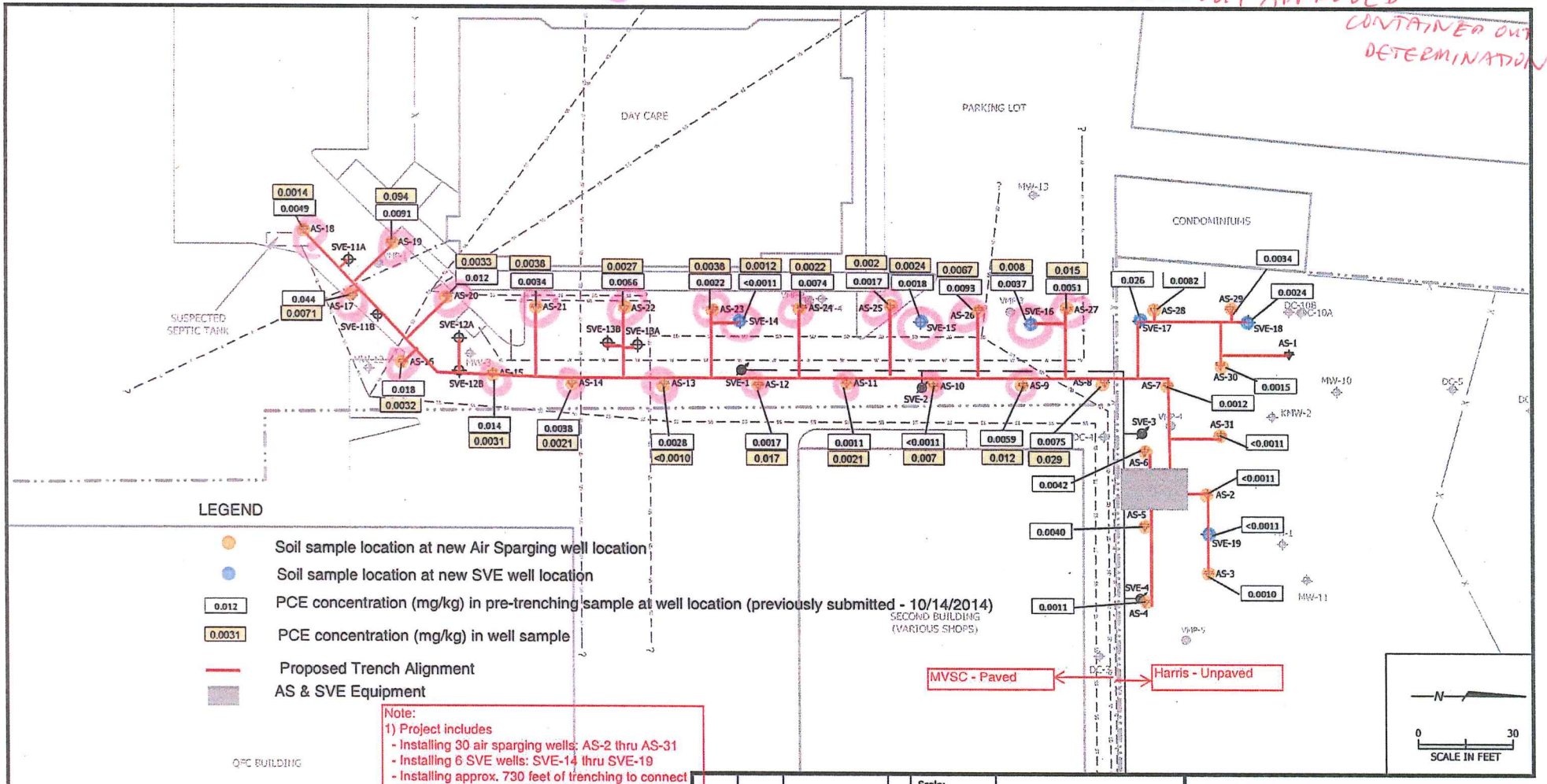
Dean Yasuda, PE
Hazardous Waste and Toxics Reduction Program

By certified mail: 7013 2250 0000 3614 6208 7013 2250 0000 3614 6215

cc: Matthew Dahl, PES Environmental

ecc: Yolanda Pon, Seattle-King County Public Health (Yolanda.Pon@kingcounty.gov)
Dave Christensen, Seattle-King County Public Health
(david.christensen@kingcounty.gov)
Lisa Brown, Ecology-ERO
Greg Caron, Ecology-CRO
Mindy Collins, Ecology-BFO
Samuel Iwenofu, Ecology-SWRO
Byung Maeng, Ecology-NWRO
Dale Myers, Ecology-NWRO
HZW 5.4.1 WAH000028116

Location of soil cuttings for Ecology approved contained out determination



NOTES:
1. AS WELLS ON HARRIS PROPERTY INCLUDE AN ESTIMATED 13 FT ZONE OF INFLUENCE.
2. AS WELLS ON MVSC PROPERTY INCLUDE AN ESTIMATED 15 FT ZONE OF INFLUENCE.
3. SVE WELLS INCLUDE AN ESTIMATED 40 FT RADIUS OF INFLUENCE. THE COMBINED SVE INFLUENCE AREA INCLUDES ALL 22 OF THE SVE WELLS (SVE-1 THROUGH SVE-19).

Note:
1) Project includes
- Installing 30 air sparging wells: AS-2 thru AS-31
- Installing 6 SVE wells: SVE-14 thru SVE-19
- Installing approx. 730 feet of trenching to connect the 36 new wells, 6 existing SVE wells (SVE-11A, -11B, -12A, -12B, -13A, -13B), and 1 existing air sparging well (AS-1).
2) Existing SVE wells SVE-1 through SVE-10 pipes and trenches were constructed in 2009.
3) If multiple sampling depths - highest concentration shown on drawing.
4) Brown background data boxes are discrete samples collected during drilling.
5) White background data boxes are pre-trenching results (previously submitted on 10/14/2014),

No.	Date	Revisions	By
0	7/22/14	Issued for Bid	

Scale: AS NOTED
Designed by: MD
Drawn by: BP
Checked by: BO
Approved by: MD

MATTHEW V. DAHL STATE OF WASHINGTON 50366 REGISTERED PROFESSIONAL ENGINEER

PES Environmental, Inc.
Engineering & Environmental Services

Well and Trench Layout - Revised with Well Sample Data
Manhattan Village/Harris Properties
17817, 17825, and 17835 1st Avenue South
Normandy Park, Washington

Sheet C-2R

1358.001.01.005	1358-00101005_SVE_r1_C1-C5	BO	7/14
JOB NUMBER	DRAWING NUMBER	REVIEWED BY	DATE

From:	Yasuda, Dean (ECY)
To:	stanlindaharris@hotmail.com; jdijulio@wpblaw.com
Cc:	Maeng, Byung (ECY); Courtney Seim (cseim@riddellwilliams.com); Matt Dahl; Myers, Dale - TCP (ECY)
Subject:	Ecology Response Time Extension Request Manhattan Village Shopping Center and Harris Properties
Date:	Wednesday, February 04, 2015 2:48:05 PM
Attachments:	Final Ecology Contained Out Letter Manhattan Village October 29-2014.pdf

Attention:

Mr. Stanley Harris
711 S 234th Pl
Des Moines, WA 98198

Mr. Robert DiJulio
Wolfstone, Panchot & Bloch, PS, Inc
1111 Third Avenue, Suite 1800
Seattle, WA 98101

The Washington State Department of Ecology (Ecology) understands that you are the property owner and legal representative of the Manhattan Tenants in Common property owner at the cleanup property located at the Manhattan Village Shopping Center and Harris Properties, Normandy Park Washington located at 17817, 17825, and 17835 1ST Ave S, Normandy Park, WA 98166. WAH000028116; FSID #4181060; VCP#NW1873

Per your environmental consultant's February 4, 2015 email (PES Environmental , Inc.), Ecology approves a time extension until **April 4, 2015** for you to dispose the Ecology approved contained out PCE contaminated soils per all instructions discussed in the previously delivered (attached) Ecology letter dated October 29, 2014.

Please note the important requirement on page 2 of Ecology's October 29, 2014 letter:

l. Send copies of all signed solid waste landfill receipt records for these contaminated soils to Ecology, attention of Dean Yasuda, within 15 days of your receipt. Also indicate the total volume/weight of all contaminated soils disposed of under the Ecology approved contained-in determination, and indicate if this total amount is above, below or equal to the total amount approved by this Ecology letter. This is an important verification step for you and your environmental consultant to follow in order for this Ecology decision to be valid.

Thank you

Sincerely,

Dean Yasuda, P.E.

Environmental Engineer
Washington State Department of Ecology
Hazardous Waste and Toxics Reduction Program
Northwest Regional Office
425.649.7264 phone

From: Matt Dahl [mailto:mdahl@pesenv.com]
Sent: Wednesday, February 04, 2015 10:10 AM
To: Yasuda, Dean (ECY); stanlindaharris@hotmail.com; jdijulio@wpblaw.com
Cc: Maeng, Byung (ECY); Courtney Seim (cseim@riddellwilliams.com)
Subject: RE: Ecology Response Time Extension Request for remaining 300 tons - Contained-in policy decision request for Manhattan Village Shopping Center and Harris Properties

Hi Dean –

We have received our grading permit from the City of Normandy Park and we are getting prepared to continue excavating trenches at this site. Therefore I am submitting this request to please approve an extension to the October 29, 2014 approval letter. The following list includes responses to each of the bullet items listed below in your December 22, 2014 letter.

1. The amount of remaining PCE soils yet to be excavated and disposed under the original Ecology approval letters dated, October 29, 2014 and November 12, 2014,letters includes:
    a. October 29, 2014 letter: estimate of remaining excavated soil is approximately 283 tons.
    b. November 12, 2014 letter: estimate of remaining excavated soil is 0 tons.

2. I am requesting a 2 month extension time based on (1) above and our work schedule. The contractor anticipates completing the trenching and disposal within the next 4 to 6 weeks, however, I would like to request that the approval be extended for a period of 2 months (until April 4, 2015) in case there are an unforeseen conditions that may occur during the work.

3. The total amount of PCE soils already disposed of under the previous Ecology approval letters dated October 29, 2014 and November 12, 2014 is as follows:
    a. October 29, 2014 letter: total tonnage of disposed soil is 81.25 tons. The signed receipts were e-mailed to you on December 23, 2014.
    b. November 12, 2014 letter: total tonnage of disposed soil is 32.4 tons. The signed landfill receipts were e-mailed to you on December 23, 2014 and February 4, 2015.

4. The total amount of remaining soils (in 3) is less than total amount approved in the Ecology letters minus the amount already disposed (in 1).
    a. October 29, 2014 letter includes approval of 365 tons. So 283 tons remaining to be excavated < 283.75 tons of remaining approved soil (or 365 tons initially approved – 81.25 tons already disposed).
    b. November 12, 2014 letter includes approval of 35 tons. So 0 tons remaining to be excavated < 2.6 tons of remaining approved soil (or 35 tons initially approved – 32.4

tons already disposed).

We would like to get started on the work next week, so I would greatly appreciate if you would be able to grand the extension request at your earliest convenience. Once we have your approval, we will order lined and covered roll-off bins from Waste Management so that we may begin excavation.

Please call or e-mail if you have any questions.

Sincerely,
-Matt

Matt Dahl, P.E.
PES Environmental , Inc.
ph: (206) 529-3980 ext. 103
cell: (425) 922-0872
fax: (206) 529-3985

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 239636

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 11/26/2014 Vehicle# 8604 Volume
Payment Type Credit Account Container 8604
Manual Ticket# 814269 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	11/24/2014 09:11:29	Front Scale	SMastrio		Gross	36600 lb*
Out	11/26/2014 09:11:29		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	30100 lb
					Tons	15.05

Comments No Rental

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	15.05	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				
3	RAIL 20FT SPW-RAIL	100	1	Load				
4	FEA T SPW-FUEL,ENV	100	15.05	Tons				

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

2014 NOV 26 AM 7:34:05

Nº 814269

DATE/TIME:
LOAD DATE:
CUSTOMER: RES Env / Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8004
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:

GROSS WEIGHT: 36,600
TARE WEIGHT-TRACTOR: 6,500
TARE WGT.-TRAILER/CONTAINER:
NET WEIGHT: 30,100

GATEHOUSE: JK 12/3/14
DRIVER:
TRAIN ID: Ukg23 ORIGIN: 6 Cont. Soil
WASTE TYPE:
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: No Rental

HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 239637

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 11/26/2014 Vehicle# 8614 Volume
Payment Type Credit Account Container 8614
Manual Ticket# 814270 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	11/24/2014 09:12:16	Front Scale	SMastrio		Gross	33900 lb*
Out	11/26/2014 09:12:16		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	27400 lb
					Tons	13.70

Comments No Rental

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	13.70	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
4	FEA T SPW-FUEL,ENV	100	13.70	Tons				WA-NORMAND

WM WASTE MANAGEMENT

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

2014 NOV 26 AM 7:33:01

N° 814270

DATE/TIME:
LOAD DATE:
CUSTOMER: PES ENV / Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8614
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:

GROSS WEIGHT: 33,900
TARE WEIGHT-TRACTOR: 6,500
TARE WGT.-TRAILER/CONTAINER:
NET WEIGHT: 27,400 / 13.70

GATEHOUSE: JR
DRIVER: Mike
TRAIN ID: Ubeg623 ORIGIN:
WASTE TYPE: Cont. Soil
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: No Rental

HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 239891

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 12/01/2014 Vehicle# 8520 Volume
Payment Type Credit Account Container 8520
Manual Ticket# 814230 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	11/22/2014 09:05:44	Front Scale	SMastrio		Gross	38800 lb*
Out	12/01/2014 09:05:44		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	32300 lb
					Tons	16.15

Comments No Rental

	Product.	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	16.15	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				
3	RAIL 20FT SPW-RAIL	100	1	Load				
4	FEA T SPW-FUEL,ENV	100	16.15	Tons				

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
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Nº 814230

2014 NOV 28 AM 10:51:56

DATE:/TIME:
LOAD DATE:
CUSTOMER: PES Env / Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER:
TRAILER/CONTAINER NUMBER: Cumu 8520
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 38800
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 32300
GATEHOUSE: VKS 13:11
DRIVER:
TRAIN ID: Unload ORIGIN: Cont Soil
WASTE TYPE:
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS: No Rental
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 239892

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 12/01/2014
Payment Type Credit Account
Manual Ticket# 814268
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 0000
Vehicle# 8585
Container 8585
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	11/24/2014 09:06:33	Front Scale	SMastrio		Gross	43200 lb*
Out	12/01/2014 09:06:33		SMastrio		Tare	6500 lb*
					Net	36700 lb
			* Manual Weight		Tons	18.35

Comments

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	18.35	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
4	FEA T SPW-FUEL,ENV	100	18.35	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
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WASTE MANAGEMENT

N° 814268

DATE/TIME: 2014 NOV 28 PM 1:21:40
LOAD DATE:
CUSTOMER: PES ENV / Harris
PROFILE NUMBER: 116861OR
TRUCK NUMBER: 8585
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 43,200
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6,500
NET WEIGHT: 36,700
GATEHOUSE: VKS
DRIVER: Eric
TRAIN ID: Useal23 ORIGIN: Cont. Soil
WASTE TYPE:
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: No Rental
HAULER:

Columbia Ridge
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Original
Ticket# 239893

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 12/01/2014
Payment Type Credit Account
Manual Ticket# 814317
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 0000
Vehicle# 8534
Container 8534
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	11/25/2014 09:07:22	Front Scale	SMastrio		Gross	42500 lb*
Out	12/01/2014 09:07:22		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	36000 lb
					Tons	18.00

Comments No Rental

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	18.00	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
4	FEA T SPW-FUEL,ENV	100	18.00	Tons				WA-NORMAND

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A Waste Management Company
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Nº 814317

DATE:/TIME: 2014 DEC 1 AM 9:13
LOAD DATE:
CUSTOMER: PES Env | Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8534
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 42,500
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6,500
NET WEIGHT: 36,000
GATEHOUSE: DW
DRIVER: AD
TRAIN ID: Used 24 ORIGIN:
WASTE TYPE: 2 Cont. Soil
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: No Rental
HAULER:

902-ARLINGTON

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Original
Ticket# 240076

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 12/02/2014 Vehicle# 8588 Volume
Payment Type Credit Account Container 8588
Manual Ticket# 814231 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	11/22/2014 08:46:40	Front Scale	SMastrio		Gross	32100 lb*
Out	12/02/2014 08:46:40		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	25600 lb
					Tons	12.80

Comments Rental 9/29-11/21 = 53 days
Dropped 9/29/14

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	12.80	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	53	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	12.80	Tons				WA-NORMAND

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WASTE MANAGEMENT

Nº 8144231

2014 DEZ 2 PM 3:27:08

DATE/TIME:
LOAD DATE:
CUSTOMER: PES Environmental / Harris 116861OR
PROFILE NUMBER:
TRUCK NUMBER: 8588
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 32100
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 25600
GATEHOUSE: VKS
DRIVER: Arnold
TRAIN ID: Valley 21 ORIGIN: Cont Soil
WASTE TYPE:
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS: Rental 9/29-11/21 = 53 days
Dropped 9/29
HAULER: RT

902-ARLINGTON

Columbia Ridge
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Ph: (541) 454-2030

Original
Ticket# 240077

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 12/02/2014
Payment Type Credit Account
Manual Ticket# 814267
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8525
Container 8525
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	11/24/2014 08:48:00	Front Scale	SMastrio		Gross	28800 lb*
Out	12/02/2014 08:48:00		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	22300 lb
					Tons	11.15

Comments Rental 10/10-11/21 = 42 days
Dropped 10/10/14

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	Cont Soil Sp. W.-T	100	11.15	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	'DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	42	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	11.15	Tons				WA-NORMAND

Oregon Waste Systems
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2014 DEZ 2 AM10:49:01

Nº 814267

DATE/TIME:
LOAD DATE:
CUSTOMER: PES Env | Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: CWMU 8525
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 28800
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 22300
GATEHOUSE: DW
DRIVER: AD
TRAIN ID: Used 23 ORIGIN:
WASTE TYPE: Cont Soil
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 10/10 - 11/21 = 42 days
Dropped 10/10
HAULER: RT

902-ARLINGTON

230191

Columbia Ridge
18177 Cedar Springs Lane
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Original
Ticket# 247312

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 01/14/2015
Payment Type Credit Account
Manual Ticket# 815691
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8538
Container 8538
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	12/31/2014 11:01:07	Front Scale	vmckinne		Gross	23400 lb*
Out	01/14/2015 11:01:07		vmckinne		Tare	6500 lb*
			* Manual Weight		Net	16900 lb
					Tons	8.45

Comments Rental 11/21-12/29=38 days REPLACEMENT TICKET FOR TICKET # 247263

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	8.45	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	RENT SPW DAILY-CAN	100	38	Each				WA-NORMAND
4	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
5	FEA T SPW-FUEL,ENV	100	8.45	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030
2015 JAN 13 PM 1:34:54

WASTE MANAGEMENT

N° 815691

DATE/TIME:
LOAD DATE:
CUSTOMER: PES Environmental/Harris 1168610R
PROFILE NUMBER:
TRUCK NUMBER: 8538
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 23400
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 16900
GATEHOUSE: JR
DRIVER: Marshall
TRAIN ID: USGC30 ORIGIN: Cont. Soil
WASTE TYPE:
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 11/21 - 12/29 = 38 days
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 253094

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 02/19/2015
Payment Type Credit Account
Manual Ticket# 820787
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8553
Container 8553
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:42:29	Front Scale	SMastrio		Gross	44000 lb*
Out	02/19/2015 09:42:29		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	37500 lb
					Tons	18.75

Comments Rental 2/9-2/17=8 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	18.75	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	8	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	18.75	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
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2015 FEB 19 AM 9:30:35

WASTE MANAGEMENT

Nº 820787

DATE/TIME: _____
LOAD DATE: 2/19
CUSTOMER: PES Env. / Harris
PROFILE NUMBER: 116861OR
TRUCK NUMBER: 8553
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 44000
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 37500
GATEHOUSE: NK
DRIVER: Garux
TRAIN ID: WOGL17 ORIGIN:
WASTE TYPE: Cont. Soil
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 2/9-2/17 = 8 days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 253095

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 02/19/2015
Payment Type Credit Account
Manual Ticket# 820788
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8599
Container 8599
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/18/2015 09:43:49	Front Scale	SMastrio		Gross	42800 lb*
Out	02/19/2015 09:43:49		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	36300 lb
					Tons	18.15

Comments Rental 2/9-2/17=8 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	18.15	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	8	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	18.15	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030
2015 FEB 19 AM 8:29:58

WASTE MANAGEMENT

Nº 820788

DATE/TIME:
LOAD DATE: 2/18/15
CUSTOMER: PES ENV. HARRIS
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8599
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 42800
TARE WEIGHT-TRACTOR:
TARE WGT-TRAILER/CONTAINER: 6500
NET WEIGHT: 36300
GATEHOUSE: NR
DRIVER: BLOCK
TRAIN ID: USSG617 ORIGIN:
WASTE TYPE: CONT. SOIL
DISPOSAL: (CM) DC BU XGRID SEGREGATE
REMARKS: Rental 2/9-2/17 = 8 days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 253369

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 02/20/2015
Payment Type Credit Account
Manual Ticket# 820879
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8608
Container 8608
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:47:07	Front Scale	SMastrio		Gross	45600 lb*
Out	02/20/2015 09:47:07		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	39100 lb
					Tons	19.55

Comments Rental 2/9-2/18=9 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	19.55	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	9	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	19.55	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030
2015 FEB 20 AM 10:03:43

WASTE MANAGEMENT

Nº 820879

DATE/TIME: _____
LOAD DATE: _____
CUSTOMER: PES Environmental Harris
PROFILE NUMBER: 116861OR
TRUCK NUMBER: WMXU 2008
TRAILER/CONTAINER NUMBER: _____
SEAL NUMBER: _____
CUSTOMER INVOICE NO.: _____
GROSS WEIGHT: 45600
TARE WEIGHT-TRACTOR: 6500
TARE WGT.-TRAILER/CONTAINER: _____
NET WEIGHT: 39100
GATEHOUSE: Lori Roth
DRIVER: _____
TRAIN ID: WSOA18 ORIGIN: 1 Cont. Soil
WASTE TYPE: _____
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 2/9 - 2/18 = 9 days
Dropped 2/9
HAULER: ET

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 253373

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 02/20/2015 Vehicle# 8615 Volume
Payment Type Credit Account Container 8615
Manual Ticket# 820880 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:48:16	Front Scale	SMastrio		Gross	43300 lb*
Out	02/20/2015 09:48:16		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	36800 lb
					Tons	18.40

Comments Rental 2/9-2/18=9 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	18.40	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	9	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	18.40	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

2015 FEB 20 AM 8:10:54

Nº 820880

DATE/TIME:
LOAD DATE:
CUSTOMER: PES Environmental/Harris 116861OR
PROFILE NUMBER:
TRUCK NUMBER: Wmyll 8615
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 43300
TARE WEIGHT-TRACTOR:
TARE WGT-TRAILER/CONTAINER: 6500
NET WEIGHT: 36800
GATEHOUSE: Don Anthony
DRIVER:
TRAIN ID: Ukeagle8 ORIGIN: Stant. Soil
WASTE TYPE:
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS: Rental 2/9-2/18= 9days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 253636

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 02/23/2015
Payment Type Credit Account
Manual Ticket# 820878
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 116861OR (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8510
Container 8510
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/19/2015 09:59:27	Front Scale	SMastrio		Gross	31800 lb*
Out	02/23/2015 09:59:27		SMastrio		Tare	7780 lb*
			* Manual Weight		Net	24020 lb
					Tons	12.01

Comments Rental 2/9-2/18=9 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	12.01	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	9	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	12.01	Tons				WA-NORMAND

WASTE MANAGEMENT

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

2015 FEB 23 PM 12:10:35

N° 820878

DATE/TIME: _____
LOAD DATE: _____
CUSTOMER: PES Environmental/Harris
PROFILE NUMBER: 116861OR
TRUCK NUMBER: 8510
TRAILER/CONTAINER NUMBER: Owned
SEAL NUMBER: _____
CUSTOMER INVOICE NO.: _____
GROSS WEIGHT: 31800
TARE WEIGHT-TRACTOR: 7780
TARE WGT.-TRAILER/CONTAINER: 24020
NET WEIGHT: _____
GATEHOUSE: Owned
DRIVER: _____
TRAIN ID: _____ ORIGIN: Used Cont. Soil
WASTE TYPE: _____
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 2/9 - 2/18 - 9 days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 254779

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 03/02/2015
Payment Type Credit Account
Manual Ticket# 821234
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8532
Container 8532
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/27/2015 10:56:44	Front Scale	SMastrio		Gross	26000 lb*
Out	03/02/2015 10:56:44		SMastrio		Tare	7780 lb*
			* Manual Weight		Net	18220 lb
					Tons	9.11

Comments Rental 2/9-2/25=16 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	9.11	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				
3	DEL U SPW-DELIVERY	100	1	Each				
4	RENT SPW DAILY-CAN	100	16	Each				
5	RAIL 20FT SPW-RAIL	100	1	Load				
6	FEA T SPW-FUEL,ENV	100	9.11	Tons				

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

WASTE MANAGEMENT

2015 MAR 2 PM 3:20:04

N° 821234

DATE/TIME: _____
LOAD DATE: _____
CUSTOMER: PES Environmental Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: Comm 8532
TRAILER/CONTAINER NUMBER: _____
SEAL NUMBER: _____
CUSTOMER INVOICE NO.: _____
GROSS WEIGHT: 26000
TARE WEIGHT-TRACTOR: 7780
TARE WGT.-TRAILER/CONTAINER: 18220
NET WEIGHT: _____
GATEHOUSE: DEW
DRIVER: MB
TRAIN ID: _____ ORIGIN: _____
WASTE TYPE: Contaminated
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 2/9 - 2/25 = 16 days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 254780

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 03/02/2015 Vehicle# 8609 Volume
Payment Type Credit Account Container 8609
Manual Ticket# 821235 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound		
In	02/27/2015 10:57:56	Front Scale	SMastrio		Gross	43800 lb*
Out	03/02/2015 10:57:56		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	37300 lb
					Tons	18.65

Comments Rental 2/9-2/25=16 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	18.65	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	16	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	18.65	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
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WASTE MANAGEMENT

Nº 821235

2015 MAR 2 AM 6:50:44

DATE/TIME:
LOAD DATE:
CUSTOMER: PES Environmental / Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8609
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 43800
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 37300
GATEHOUSE: Dew
DRIVER: DG
TRAIN ID: USEGL 20 ORIGIN: Cont. Soil
WASTE TYPE:
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS: Rental 2/9 - 2/25 = 16days
Dropped 2/9
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 254781

Customer Name PES ENVIRONMENTAL PES ENVIRON Carrier 8000
Ticket Date 03/02/2015 Vehicle# 8624 Volume
Payment Type Credit Account Container 8624
Manual Ticket# 821236 Billing # 0001898
Hauling Ticket# Manifest
Destination UP/R TRANSPORT PO 1358.001.01
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator OR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

	Time	Scale	Operator	Inbound	Gross	39300 lb*
In	02/27/2015 10:58:43	Front Scale	SMastrio		Tare	6500 lb*
Out	03/02/2015 10:58:43		SMastrio		Net	32800 lb
			* Manual Weight		Tons	16.40

Comments Rental 2/18-2/25=7 days

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	16.40	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	RENT SPW DAILY-CAN	100	7	Each				WA-NORMAND
4	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
5	FEA T SPW-FUEL,ENV	100	16.40	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
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2015 MAR 2 PM 1:17

N° 821236

DATE:/TIME: _____
LOAD DATE: _____
CUSTOMER: PES Environmental Harris
PROFILE NUMBER: 1168610R
TRUCK NUMBER: 8624
TRAILER/CONTAINER NUMBER: _____
SEAL NUMBER: _____
CUSTOMER INVOICE NO.: _____
GROSS WEIGHT: 39300
TARE WEIGHT-TRACTOR: 6500
TARE WGT.-TRAILER/CONTAINER: +
NET WEIGHT: 32800
GATEHOUSE: NK
DRIVER: Anthony
TRAIN ID: _____ ORIGIN: _____
WASTE TYPE: Excavated Soil
DISPOSAL: (CM) DC BU GRID SEGREGATE
REMARKS: Rental 2/18 - 2/25 = 7 days
HAULER: RT

902-ARLINGTON

Columbia Ridge
18177 Cedar Springs Lane
Arlington, OR, 97812
Ph: (541) 454-2030

Original
Ticket# 254782

Customer Name PES ENVIRONMENTAL PES ENVIRON
Ticket Date 03/02/2015
Payment Type Credit Account
Manual Ticket# 821291
Hauling Ticket#
Destination UP/R TRANSPORT
Profile 1168610R (PCE-CONTAMINATED CONTAINED OUT SOIL)
Generator DR-HARRIS FAMILY 17817 HARRIS FAMILY LTD 17817 1ST AVE SOUTH

Carrier 8000
Vehicle# 8623
Container 8623
Billing # 0001898
Manifest
PO 1358.001.01

Volume

	Time	Scale	Operator	Inbound		
In	02/28/2015 10:59:36	Front Scale	SMastrio		Gross	39700 lb*
Out	03/02/2015 10:59:36		SMastrio		Tare	6500 lb*
			* Manual Weight		Net	33200 lb
					Tons	16.60

Comments Rental 2/9-2/25=16 days
Dropped 2/9/15

	Product	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1	ENVCLEANUP SPWPCS-	100	16.60	Tons				WA-NORMAND
2	LOC U SPW-LOCAL TR	100	1	Load				WA-NORMAND
3	DEL U SPW-DELIVERY	100	1	Each				WA-NORMAND
4	RENT SPW DAILY-CAN	100	16	Each				WA-NORMAND
5	RAIL 20FT SPW-RAIL	100	1	Load				WA-NORMAND
6	FEA T SPW-FUEL,ENV	100	16.60	Tons				WA-NORMAND

Oregon Waste Systems
A Waste Management Company
18177 Cedar Springs Lane
Arlington, Oregon 97812
(541) 454-2030

2015 MAR 2 PM 12:26:15

Nº 821291

DATE:/TIME:
LOAD DATE:
CUSTOMER: PES Environmental Harris 1168610E
PROFILE NUMBER:
TRUCK NUMBER: 8623
TRAILER/CONTAINER NUMBER:
SEAL NUMBER:
CUSTOMER INVOICE NO.:
GROSS WEIGHT: 39700
TARE WEIGHT-TRACTOR:
TARE WGT.-TRAILER/CONTAINER: 6500
NET WEIGHT: 33200
GATEHOUSE: DW
DRIVER: RB
TRAIN ID: USEA 27 ORIGIN: Lonl. Sal
WASTE TYPE:
DISPOSAL: CM DC BU GRID SEGREGATE
REMARKS: Rental 2/9-2/25 = 16 days
Dropped 2/9
HAULER: RT

902-ARLINGTON

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Tax I.D. 62-0814289

Est. 1970

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Tuesday October 07, 2014

Report Number: L724705
Samples Received: 09/30/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards

Daphne Richards , ESC Representative

Laboratory Certification Numbers

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-28-10

Collected By : Chris DeBoer
Collection Date : 09/22/14 11:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.2		%	2540 G-2011	10/02/14	1
Volatile Organics						
Acetone	BDL	0.051	mg/kg	8260C	10/06/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/06/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/06/14	1
Bromomethane	BDL	0.0051	mg/kg	8260C	10/06/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/06/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Chloroethane	BDL	0.0051	mg/kg	8260C	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.051	mg/kg	8260C	10/06/14	1
Chloroform	BDL	0.0051	mg/kg	8260C	10/06/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0051	mg/kg	8260C	10/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Dichlorodifluoromethane	BDL	0.0051	mg/kg	8260C	10/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/06/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-28-10

Collected By : Chris DeBoer
Collection Date : 09/22/14 11:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/06/14	1
Methylene Chloride	BDL	0.0051	mg/kg	8260C	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/06/14	1
Naphthalene	BDL	0.0051	mg/kg	8260C	10/06/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Tetrachloroethene	0.0082	0.0010	mg/kg	8260C	10/06/14	1
Toluene	BDL	0.0051	mg/kg	8260C	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/06/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Trichlorofluoromethane	BDL	0.0051	mg/kg	8260C	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/06/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/06/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/06/14	1
Dibromofluoromethane	99.1		% Rec.	8260C	10/06/14	1
4-Bromofluorobenzene	86.4		% Rec.	8260C	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Reported: 10/07/14 19:40 Printed: 10/07/14 19:41

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-29-5

Collected By : Chris DeBoer
Collection Date : 09/23/14 09:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.9		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.21	0.052	mg/kg	8260C	10/04/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/04/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/04/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/04/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/04/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/04/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/04/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/04/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/04/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/04/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/04/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/04/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/04/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/04/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/04/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/04/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/04/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/04/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-29-5

Collected By : Chris DeBoer
Collection Date : 09/23/14 09:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/04/14	1
2-Butanone (MEK)	0.018	0.010	mg/kg	8260C	10/04/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/04/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/04/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/04/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/04/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Tetrachloroethene	0.0034	0.0010	mg/kg	8260C	10/04/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/04/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/04/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/04/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/04/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/04/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/04/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/04/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260C	10/04/14	1
Dibromofluoromethane	103.		% Rec.	8260C	10/04/14	1
4-Bromofluorobenzene	90.8		% Rec.	8260C	10/04/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-18-5

Collected By : Chris DeBoer
Collection Date : 09/23/14 14:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.5		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.11	0.084	mg/kg	8260C	10/04/14	1.57
Acrylonitrile	BDL	0.017	mg/kg	8260C	10/04/14	1.57
Benzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Bromobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Bromodichloromethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Bromoform	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Bromomethane	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
n-Butylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
sec-Butylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
tert-Butylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Carbon tetrachloride	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Chlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Chlorodibromomethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Chloroethane	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
2-Chloroethyl vinyl ether	BDL	0.084	mg/kg	8260C	10/04/14	1.57
Chloroform	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
Chloromethane	BDL	0.0042	mg/kg	8260C	10/04/14	1.57
2-Chlorotoluene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
4-Chlorotoluene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2-Dibromo-3-Chloropropane	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
1,2-Dibromoethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Dibromomethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2-Dichlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,3-Dichlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,4-Dichlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Dichlorodifluoromethane	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
1,1-Dichloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2-Dichloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1-Dichloroethene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
cis-1,2-Dichloroethene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
trans-1,2-Dichloroethene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2-Dichloropropane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1-Dichloropropene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,3-Dichloropropane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
cis-1,3-Dichloropropene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
trans-1,3-Dichloropropene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
2,2-Dichloropropane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Di-isopropyl ether	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Ethylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Hexachloro-1,3-butadiene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Isopropylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-18-5

Collected By : Chris DeBoer
Collection Date : 09/23/14 14:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
2-Butanone (MEK)	BDL	0.017	mg/kg	8260C	10/04/14	1.57
Methylene Chloride	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
4-Methyl-2-pentanone (MIBK)	BDL	0.017	mg/kg	8260C	10/04/14	1.57
Methyl tert-butyl ether	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Naphthalene	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
n-Propylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Styrene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1,1,2-Tetrachloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1,2,2-Tetrachloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1,2-Trichlorotrifluoroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Tetrachloroethene	0.0024	0.0017	mg/kg	8260C	10/04/14	1.57
Toluene	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
1,2,3-Trichlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2,4-Trichlorobenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1,1-Trichloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,1,2-Trichloroethane	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Trichloroethene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Trichlorofluoromethane	BDL	0.0084	mg/kg	8260C	10/04/14	1.57
1,2,3-Trichloropropane	BDL	0.0042	mg/kg	8260C	10/04/14	1.57
1,2,4-Trimethylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,2,3-Trimethylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Vinyl chloride	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
1,3,5-Trimethylbenzene	BDL	0.0017	mg/kg	8260C	10/04/14	1.57
Xylenes, Total	BDL	0.0050	mg/kg	8260C	10/04/14	1.57
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260C	10/04/14	1.57
Dibromofluoromethane	114.		% Rec.	8260C	10/04/14	1.57
4-Bromofluorobenzene	87.2		% Rec.	8260C	10/04/14	1.57

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-19-5

Collected By : Chris DeBoer
Collection Date : 09/24/14 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	81.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.15	0.075	mg/kg	8260C	10/04/14	1.22
Acrylonitrile	BDL	0.015	mg/kg	8260C	10/04/14	1.22
Benzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Bromobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Bromodichloromethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Bromoform	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Bromomethane	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
n-Butylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
sec-Butylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
tert-Butylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Carbon tetrachloride	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Chlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Chlorodibromomethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Chloroethane	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
2-Chloroethyl vinyl ether	BDL	0.075	mg/kg	8260C	10/04/14	1.22
Chloroform	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
Chloromethane	BDL	0.0038	mg/kg	8260C	10/04/14	1.22
2-Chlorotoluene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
4-Chlorotoluene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2-Dibromo-3-Chloropropane	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
1,2-Dibromoethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Dibromomethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2-Dichlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,3-Dichlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,4-Dichlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Dichlorodifluoromethane	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
1,1-Dichloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2-Dichloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1-Dichloroethene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
cis-1,2-Dichloroethene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
trans-1,2-Dichloroethene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2-Dichloropropane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1-Dichloropropene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,3-Dichloropropane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
cis-1,3-Dichloropropene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
trans-1,3-Dichloropropene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
2,2-Dichloropropane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Di-isopropyl ether	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Ethylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Hexachloro-1,3-butadiene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Isopropylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-19-5

Collected By : Chris DeBoer
Collection Date : 09/24/14 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
2-Butanone (MEK)	BDL	0.015	mg/kg	8260C	10/04/14	1.22
Methylene Chloride	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
4-Methyl-2-pentanone (MIBK)	BDL	0.015	mg/kg	8260C	10/04/14	1.22
Methyl tert-butyl ether	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Naphthalene	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
n-Propylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Styrene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1,1,2-Tetrachloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1,2,2-Tetrachloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1,2-Trichlorotrifluoroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Tetrachloroethene	0.026	0.0015	mg/kg	8260C	10/04/14	1.22
Toluene	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
1,2,3-Trichlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2,4-Trichlorobenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1,1-Trichloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,1,2-Trichloroethane	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Trichloroethene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Trichlorofluoromethane	BDL	0.0075	mg/kg	8260C	10/04/14	1.22
1,2,3-Trichloropropane	BDL	0.0038	mg/kg	8260C	10/04/14	1.22
1,2,4-Trimethylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,2,3-Trimethylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Vinyl chloride	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
1,3,5-Trimethylbenzene	BDL	0.0015	mg/kg	8260C	10/04/14	1.22
Xylenes, Total	BDL	0.0045	mg/kg	8260C	10/04/14	1.22
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260C	10/04/14	1.22
Dibromofluoromethane	106.		% Rec.	8260C	10/04/14	1.22
4-Bromofluorobenzene	87.0		% Rec.	8260C	10/04/14	1.22

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS7-5

Collected By : Chris DeBoer
Collection Date : 09/24/14 11:26

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.29	0.060	mg/kg	8260C	10/04/14	1.13
Acrylonitrile	BDL	0.012	mg/kg	8260C	10/04/14	1.13
Benzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Bromobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Bromodichloromethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Bromoform	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Bromomethane	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
n-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
sec-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
tert-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Carbon tetrachloride	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Chlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Chlorodibromomethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Chloroethane	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
2-Chloroethyl vinyl ether	BDL	0.060	mg/kg	8260C	10/04/14	1.13
Chloroform	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
Chloromethane	BDL	0.0030	mg/kg	8260C	10/04/14	1.13
2-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
4-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2-Dibromo-3-Chloropropane	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Dibromomethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Dichlorodifluoromethane	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Di-isopropyl ether	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Ethylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Isopropylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L724705-05 (V8260) - Previous run confirms low IS

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS7-5

Collected By : Chris DeBoer
Collection Date : 09/24/14 11:26

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
2-Butanone (MEK)	BDL	0.012	mg/kg	8260C	10/04/14	1.13
Methylene Chloride	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260C	10/04/14	1.13
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Naphthalene	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
n-Propylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Styrene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1,2-Trichlorotrifluoroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Tetrachloroethene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Toluene	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Trichloroethene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Trichlorofluoromethane	BDL	0.0060	mg/kg	8260C	10/04/14	1.13
1,2,3-Trichloropropane	BDL	0.0030	mg/kg	8260C	10/04/14	1.13
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Vinyl chloride	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/04/14	1.13
Xylenes, Total	BDL	0.0036	mg/kg	8260C	10/04/14	1.13
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260C	10/04/14	1.13
Dibromofluoromethane	97.0		% Rec.	8260C	10/04/14	1.13
4-Bromofluorobenzene	51.9		% Rec.	8260C	10/04/14	1.13

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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L724705-05 (V8260) - Previous run confirms low IS

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/24/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260C	10/07/14	1
Acrolein	BDL	50.	ug/l	8260C	10/07/14	1
Acrylonitrile	BDL	10.	ug/l	8260C	10/07/14	1
Benzene	BDL	1.0	ug/l	8260C	10/07/14	1
Bromobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260C	10/07/14	1
Bromoform	BDL	1.0	ug/l	8260C	10/07/14	1
Bromomethane	BDL	5.0	ug/l	8260C	10/07/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260C	10/07/14	1
Chlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260C	10/07/14	1
Chloroethane	BDL	5.0	ug/l	8260C	10/07/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260C	10/07/14	1
Chloroform	BDL	5.0	ug/l	8260C	10/07/14	1
Chloromethane	BDL	2.5	ug/l	8260C	10/07/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260C	10/07/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260C	10/07/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260C	10/07/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260C	10/07/14	1
Dibromomethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260C	10/07/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260C	10/07/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/07/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/07/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/07/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260C	10/07/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260C	10/07/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/07/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/07/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/07/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260C	10/07/14	1
Ethylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260C	10/07/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260C	10/07/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L724705-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : September 30, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/24/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260C	10/07/14	1
Methylene Chloride	BDL	5.0	ug/l	8260C	10/07/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260C	10/07/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260C	10/07/14	1
Naphthalene	BDL	5.0	ug/l	8260C	10/07/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Styrene	BDL	1.0	ug/l	8260C	10/07/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260C	10/07/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260C	10/07/14	1
Toluene	BDL	5.0	ug/l	8260C	10/07/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260C	10/07/14	1
Trichloroethene	BDL	1.0	ug/l	8260C	10/07/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260C	10/07/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260C	10/07/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/07/14	1
Vinyl chloride	BDL	1.0	ug/l	8260C	10/07/14	1
Xylenes, Total	BDL	3.0	ug/l	8260C	10/07/14	1
Surrogate Recovery						
Toluene-d8	98.2		% Rec.	8260C	10/07/14	1
Dibromofluoromethane	100.		% Rec.	8260C	10/07/14	1
4-Bromofluorobenzene	95.6		% Rec.	8260C	10/07/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
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Reported: 10/07/14 19:40 Printed: 10/07/14 19:41

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L724705-02	WG746296	SAMP	1,2,3-Trichlorobenzene	R2995620	J4
L724705-03	WG746296	SAMP	Acetone	R2995620	V3
	WG746296	SAMP	1,2,3-Trichlorobenzene	R2995620	J4
L724705-04	WG746296	SAMP	1,2,3-Trichlorobenzene	R2995620	J4
L724705-05	WG746296	SAMP	1,2,3-Trichlorobenzene	R2995620	J4
	WG746296	SAMP	4-Bromofluorobenzene	R2995620	J2

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J2	Surrogate recovery limits have been exceeded; values are outside lower control limits
J4	The associated batch QC was outside the established quality control range for accuracy.
V3	(ESC) - Additional QC Info: The internal standard exhibited poor recovery due to sample matrix interference. The analytical results will be biased high. BDL results will be unaffected.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/07/14 at 19:41:21

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L724705-01 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

Sample: L724705-02 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

Sample: L724705-03 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

Sample: L724705-04 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

Sample: L724705-05 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

Sample: L724705-06 Account: PESENVSWA Received: 09/30/14 09:00 Due Date: 10/07/14 00:00 RPT Date: 10/07/14 19:40

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724705

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG746211	10/02/14 06:14
Total Solids	< .1	%			WG746364	10/03/14 06:53
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1,1-Trichloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1,2-Trichloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1-Dichloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,1-Dichloroethene	< .001	mg/kg			WG746986	10/06/14 12:17
1,1-Dichloropropene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2,3-Trichloropropane	< .0025	mg/kg			WG746986	10/06/14 12:17
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746986	10/06/14 12:17
1,2-Dibromoethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,2-Dichlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,2-Dichloroethane	< .001	mg/kg			WG746986	10/06/14 12:17
1,2-Dichloropropane	< .001	mg/kg			WG746986	10/06/14 12:17
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,3-Dichlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
1,3-Dichloropropane	< .001	mg/kg			WG746986	10/06/14 12:17
1,4-Dichlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
2,2-Dichloropropane	< .001	mg/kg			WG746986	10/06/14 12:17
2-Butanone (MEK)	< .01	mg/kg			WG746986	10/06/14 12:17
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746986	10/06/14 12:17
2-Chlorotoluene	< .001	mg/kg			WG746986	10/06/14 12:17
4-Chlorotoluene	< .001	mg/kg			WG746986	10/06/14 12:17
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746986	10/06/14 12:17
Acetone	< .05	mg/kg			WG746986	10/06/14 12:17
Acrylonitrile	< .01	mg/kg			WG746986	10/06/14 12:17
Benzene	< .001	mg/kg			WG746986	10/06/14 12:17
Bromobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Bromodichloromethane	< .001	mg/kg			WG746986	10/06/14 12:17
Bromoform	< .001	mg/kg			WG746986	10/06/14 12:17
Bromomethane	< .005	mg/kg			WG746986	10/06/14 12:17
Carbon tetrachloride	< .001	mg/kg			WG746986	10/06/14 12:17
Chlorobenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Chlorodibromomethane	< .001	mg/kg			WG746986	10/06/14 12:17
Chloroethane	< .005	mg/kg			WG746986	10/06/14 12:17
Chloroform	< .005	mg/kg			WG746986	10/06/14 12:17
Chloromethane	< .0025	mg/kg			WG746986	10/06/14 12:17
cis-1,2-Dichloroethene	< .001	mg/kg			WG746986	10/06/14 12:17
cis-1,3-Dichloropropene	< .001	mg/kg			WG746986	10/06/14 12:17
Di-isopropyl ether	< .001	mg/kg			WG746986	10/06/14 12:17
Dibromomethane	< .001	mg/kg			WG746986	10/06/14 12:17
Dichlorodifluoromethane	< .005	mg/kg			WG746986	10/06/14 12:17
Ethylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746986	10/06/14 12:17
Isopropylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Methyl tert-butyl ether	< .001	mg/kg			WG746986	10/06/14 12:17
Methylene Chloride	< .005	mg/kg			WG746986	10/06/14 12:17
n-Butylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
n-Propylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724705

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Naphthalene	< .005	mg/kg			WG746986	10/06/14 12:17
p-Isopropyltoluene	< .001	mg/kg			WG746986	10/06/14 12:17
sec-Butylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Styrene	< .001	mg/kg			WG746986	10/06/14 12:17
tert-Butylbenzene	< .001	mg/kg			WG746986	10/06/14 12:17
Tetrachloroethene	< .001	mg/kg			WG746986	10/06/14 12:17
Toluene	< .005	mg/kg			WG746986	10/06/14 12:17
trans-1,2-Dichloroethene	< .001	mg/kg			WG746986	10/06/14 12:17
trans-1,3-Dichloropropene	< .001	mg/kg			WG746986	10/06/14 12:17
Trichloroethene	< .001	mg/kg			WG746986	10/06/14 12:17
Trichlorofluoromethane	< .005	mg/kg			WG746986	10/06/14 12:17
Vinyl chloride	< .001	mg/kg			WG746986	10/06/14 12:17
Xylenes, Total	< .003	mg/kg			WG746986	10/06/14 12:17
4-Bromofluorobenzene		% Rec.	86.60	71-126	WG746986	10/06/14 12:17
Dibromofluoromethane		% Rec.	95.10	78.3-121	WG746986	10/06/14 12:17
Toluene-d8		% Rec.	97.90	88.5-111	WG746986	10/06/14 12:17
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1,1-Trichloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1,2-Trichloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1-Dichloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,1-Dichloroethene	< .001	mg/kg			WG746296	10/04/14 17:19
1,1-Dichloropropene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2,3-Trichloropropane	< .0025	mg/kg			WG746296	10/04/14 17:19
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746296	10/04/14 17:19
1,2-Dibromoethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,2-Dichlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,2-Dichloroethane	< .001	mg/kg			WG746296	10/04/14 17:19
1,2-Dichloropropane	< .001	mg/kg			WG746296	10/04/14 17:19
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,3-Dichlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
1,3-Dichloropropane	< .001	mg/kg			WG746296	10/04/14 17:19
1,4-Dichlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
2,2-Dichloropropane	< .001	mg/kg			WG746296	10/04/14 17:19
2-Butanone (MEK)	< .01	mg/kg			WG746296	10/04/14 17:19
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746296	10/04/14 17:19
2-Chlorotoluene	< .001	mg/kg			WG746296	10/04/14 17:19
4-Chlorotoluene	< .001	mg/kg			WG746296	10/04/14 17:19
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746296	10/04/14 17:19
Acetone	< .05	mg/kg			WG746296	10/04/14 17:19
Acrylonitrile	< .01	mg/kg			WG746296	10/04/14 17:19
Benzene	< .001	mg/kg			WG746296	10/04/14 17:19
Bromobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Bromodichloromethane	< .001	mg/kg			WG746296	10/04/14 17:19
Bromoform	< .001	mg/kg			WG746296	10/04/14 17:19
Bromomethane	< .005	mg/kg			WG746296	10/04/14 17:19
Carbon tetrachloride	< .001	mg/kg			WG746296	10/04/14 17:19
Chlorobenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Chlorodibromomethane	< .001	mg/kg			WG746296	10/04/14 17:19
Chloroethane	< .005	mg/kg			WG746296	10/04/14 17:19
Chloroform	< .005	mg/kg			WG746296	10/04/14 17:19
Chloromethane	< .0025	mg/kg			WG746296	10/04/14 17:19

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

ESC LAB SCIENCES
YOUR LAB OF CHOICE

12065 Lebanon Rd.
Mt. Juliet, TN 37122
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1-800-767-5859
Fax (615) 758-5859

Tax I.D. 62-0814289

Est. 1970

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Seattle, WA 98161

Quality Assurance Report
Level II

L724705

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,2-Dichloroethene	< .001	mg/kg			WG746296	10/04/14 17:19
cis-1,3-Dichloropropene	< .001	mg/kg			WG746296	10/04/14 17:19
Di-isopropyl ether	< .001	mg/kg			WG746296	10/04/14 17:19
Dibromomethane	< .001	mg/kg			WG746296	10/04/14 17:19
Dichlorodifluoromethane	< .005	mg/kg			WG746296	10/04/14 17:19
Ethylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746296	10/04/14 17:19
Isopropylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Methyl tert-butyl ether	< .001	mg/kg			WG746296	10/04/14 17:19
Methylene Chloride	< .005	mg/kg			WG746296	10/04/14 17:19
n-Butylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
n-Propylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Naphthalene	< .005	mg/kg			WG746296	10/04/14 17:19
p-Isopropyltoluene	< .001	mg/kg			WG746296	10/04/14 17:19
sec-Butylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Styrene	< .001	mg/kg			WG746296	10/04/14 17:19
tert-Butylbenzene	< .001	mg/kg			WG746296	10/04/14 17:19
Tetrachloroethene	< .001	mg/kg			WG746296	10/04/14 17:19
Toluene	< .005	mg/kg			WG746296	10/04/14 17:19
trans-1,2-Dichloroethene	< .001	mg/kg			WG746296	10/04/14 17:19
trans-1,3-Dichloropropene	< .001	mg/kg			WG746296	10/04/14 17:19
Trichloroethene	< .001	mg/kg			WG746296	10/04/14 17:19
Trichlorofluoromethane	< .005	mg/kg			WG746296	10/04/14 17:19
Vinyl chloride	< .001	mg/kg			WG746296	10/04/14 17:19
Xylenes, Total	< .003	mg/kg			WG746296	10/04/14 17:19
4-Bromofluorobenzene		% Rec.	92.20	71-126	WG746296	10/04/14 17:19
Dibromofluoromethane		% Rec.	103.0	78.3-121	WG746296	10/04/14 17:19
Toluene-d8		% Rec.	106.0	88.5-111	WG746296	10/04/14 17:19
Bromomethane	< .005	mg/l			WG747178	10/07/14 13:38
Naphthalene	< .005	mg/l			WG747178	10/07/14 13:38
4-Bromofluorobenzene		% Rec.	95.40	71-126	WG747178	10/07/14 13:38
Dibromofluoromethane		% Rec.	96.90	78.3-121	WG747178	10/07/14 13:38
Toluene-d8		% Rec.	100.0	88.5-111	WG747178	10/07/14 13:38
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1,1-Trichloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1,2-Trichloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1-Dichloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,1-Dichloroethene	< .001	mg/l			WG746783	10/07/14 13:24
1,1-Dichloropropene	< .001	mg/l			WG746783	10/07/14 13:24
1,2,3-Trichlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,2,3-Trichloropropane	< .001	mg/l			WG746783	10/07/14 13:24
1,2,3-Trimethylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,2,4-Trichlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,2,4-Trimethylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG746783	10/07/14 13:24
1,2-Dibromoethane	< .001	mg/l			WG746783	10/07/14 13:24
1,2-Dichlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,2-Dichloroethane	< .001	mg/l			WG746783	10/07/14 13:24
1,2-Dichloropropane	< .001	mg/l			WG746783	10/07/14 13:24
1,3,5-Trimethylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,3-Dichlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24
1,3-Dichloropropane	< .001	mg/l			WG746783	10/07/14 13:24
1,4-Dichlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
2,2-Dichloropropane	< .001	mg/l			WG746783	10/07/14 13:24
2-Butanone (MEK)	< .01	mg/l			WG746783	10/07/14 13:24
2-Chloroethyl vinyl ether	< .05	mg/l			WG746783	10/07/14 13:24
2-Chlorotoluene	< .001	mg/l			WG746783	10/07/14 13:24
4-Chlorotoluene	< .001	mg/l			WG746783	10/07/14 13:24
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG746783	10/07/14 13:24
Acetone	< .05	mg/l			WG746783	10/07/14 13:24
Acrolein	< .025	mg/l			WG746783	10/07/14 13:24
Acrylonitrile	< .01	mg/l			WG746783	10/07/14 13:24
Benzene	< .001	mg/l			WG746783	10/07/14 13:24
Bromobenzene	< .001	mg/l			WG746783	10/07/14 13:24
Bromodichloromethane	< .001	mg/l			WG746783	10/07/14 13:24
Bromoform	< .001	mg/l			WG746783	10/07/14 13:24
Carbon tetrachloride	< .001	mg/l			WG746783	10/07/14 13:24
Chlorobenzene	< .001	mg/l			WG746783	10/07/14 13:24
Chlorodibromomethane	< .001	mg/l			WG746783	10/07/14 13:24
Chloroethane	< .005	mg/l			WG746783	10/07/14 13:24
Chloroform	< .005	mg/l			WG746783	10/07/14 13:24
Chloromethane	< .0025	mg/l			WG746783	10/07/14 13:24
cis-1,2-Dichloroethene	< .001	mg/l			WG746783	10/07/14 13:24
cis-1,3-Dichloropropene	< .001	mg/l			WG746783	10/07/14 13:24
Di-isopropyl ether	< .001	mg/l			WG746783	10/07/14 13:24
Dibromomethane	< .001	mg/l			WG746783	10/07/14 13:24
Dichlorodifluoromethane	< .005	mg/l			WG746783	10/07/14 13:24
Ethylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
Hexachloro-1,3-butadiene	< .001	mg/l			WG746783	10/07/14 13:24
Isopropylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
Methyl tert-butyl ether	< .001	mg/l			WG746783	10/07/14 13:24
Methylene Chloride	< .005	mg/l			WG746783	10/07/14 13:24
n-Butylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
n-Propylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
p-Isopropyltoluene	< .001	mg/l			WG746783	10/07/14 13:24
sec-Butylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
Styrene	< .001	mg/l			WG746783	10/07/14 13:24
tert-Butylbenzene	< .001	mg/l			WG746783	10/07/14 13:24
Tetrachloroethene	< .001	mg/l			WG746783	10/07/14 13:24
Toluene	< .005	mg/l			WG746783	10/07/14 13:24
trans-1,2-Dichloroethene	< .001	mg/l			WG746783	10/07/14 13:24
trans-1,3-Dichloropropene	< .001	mg/l			WG746783	10/07/14 13:24
Trichloroethene	< .001	mg/l			WG746783	10/07/14 13:24
Trichlorofluoromethane	< .005	mg/l			WG746783	10/07/14 13:24
Vinyl chloride	< .001	mg/l			WG746783	10/07/14 13:24
Xylenes, Total	< .003	mg/l			WG746783	10/07/14 13:24
4-Bromofluorobenzene		% Rec.	88.50	71-126	WG746783	10/07/14 13:24
Dibromofluoromethane		% Rec.	92.40	78.3-121	WG746783	10/07/14 13:24
Toluene-d8		% Rec.	99.10	88.5-111	WG746783	10/07/14 13:24

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	77.1	76.9	0.348	5	L724237-12	WG746211
Total Solids	%	97.2	97.2	0.00326	5	L724721-01	WG746364

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG746211

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Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.1	100.	85-115	WG746364
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0250	99.8	72.9-124	WG746986
1,1,1-Trichloroethane	mg/kg	.025	0.0234	93.5	73.7-124	WG746986
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0280	112.	69.4-122	WG746986
1,1,2-Trichloroethane	mg/kg	.025	0.0255	102.	79.1-118	WG746986
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0248	99.2	70-146	WG746986
1,1-Dichloroethane	mg/kg	.025	0.0248	99.3	75-124	WG746986
1,1-Dichloroethene	mg/kg	.025	0.0228	91.4	70.4-129	WG746986
1,1-Dichloropropene	mg/kg	.025	0.0247	98.6	74.9-124	WG746986
1,2,3-Trichlorobenzene	mg/kg	.025	0.0274	109.	69.3-131	WG746986
1,2,3-Trichloropropane	mg/kg	.025	0.0281	112.	71.4-123	WG746986
1,2,3-Trimethylbenzene	mg/kg	.025	0.0250	99.8	73.6-113	WG746986
1,2,4-Trichlorobenzene	mg/kg	.025	0.0282	113.	71.9-137	WG746986
1,2,4-Trimethylbenzene	mg/kg	.025	0.0262	105.	75.5-122	WG746986
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0284	114.	62.8-133	WG746986
1,2-Dibromoethane	mg/kg	.025	0.0257	103.	78.6-120	WG746986
1,2-Dichlorobenzene	mg/kg	.025	0.0259	104.	78.3-118	WG746986
1,2-Dichloroethane	mg/kg	.025	0.0220	87.8	70.1-124	WG746986
1,2-Dichloropropane	mg/kg	.025	0.0287	115.	77.9-119	WG746986
1,3,5-Trimethylbenzene	mg/kg	.025	0.0263	105.	75.9-124	WG746986
1,3-Dichlorobenzene	mg/kg	.025	0.0277	111.	72-126	WG746986
1,3-Dichloropropane	mg/kg	.025	0.0258	103.	79.1-117	WG746986
1,4-Dichlorobenzene	mg/kg	.025	0.0266	107.	78.3-117	WG746986
2,2-Dichloropropane	mg/kg	.025	0.0249	99.4	61.3-136	WG746986
2-Butanone (MEK)	mg/kg	.125	0.135	108.	53.7-153	WG746986
2-Chloroethyl vinyl ether	mg/kg	.125	0.132	106.	37.7-157	WG746986
2-Chlorotoluene	mg/kg	.025	0.0250	100.	75.6-121	WG746986
4-Chlorotoluene	mg/kg	.025	0.0264	106.	77.3-120	WG746986
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.144	115.	70.4-137	WG746986
Acetone	mg/kg	.125	0.131	105.	35.1-175	WG746986
Acrylonitrile	mg/kg	.125	0.143	114.	56.4-128	WG746986
Benzene	mg/kg	.025	0.0256	103.	77.1-121	WG746986
Bromobenzene	mg/kg	.025	0.0244	97.4	78.2-115	WG746986
Bromodichloromethane	mg/kg	.025	0.0239	95.6	74.9-115	WG746986
Bromoform	mg/kg	.025	0.0282	113.	65.9-132	WG746986
Bromomethane	mg/kg	.025	0.0293	117.	48.7-165	WG746986
Carbon tetrachloride	mg/kg	.025	0.0243	97.4	70-124	WG746986
Chlorobenzene	mg/kg	.025	0.0259	104.	79.1-119	WG746986
Chlorodibromomethane	mg/kg	.025	0.0261	104.	73.5-121	WG746986
Chloroethane	mg/kg	.025	0.0280	112.	66.2-132	WG746986
Chloroform	mg/kg	.025	0.0231	92.2	76.7-122	WG746986
Chloromethane	mg/kg	.025	0.0289	116.	63.4-131	WG746986
cis-1,2-Dichloroethene	mg/kg	.025	0.0250	100.	78.2-119	WG746986
cis-1,3-Dichloropropene	mg/kg	.025	0.0274	110.	79.6-120	WG746986
Di-isopropyl ether	mg/kg	.025	0.0262	105.	70.4-133	WG746986
Dibromomethane	mg/kg	.025	0.0258	103.	79.4-120	WG746986
Dichlorodifluoromethane	mg/kg	.025	0.0252	101.	57.1-137	WG746986
Ethylbenzene	mg/kg	.025	0.0266	106.	79.7-122	WG746986
Hexachloro-1,3-butadiene	mg/kg	.025	0.0268	107.	68.2-123	WG746986
Isopropylbenzene	mg/kg	.025	0.0261	104.	80-135	WG746986
Methyl tert-butyl ether	mg/kg	.025	0.0243	97.1	73-129	WG746986
Methylene Chloride	mg/kg	.025	0.0236	94.2	72.6-120	WG746986
n-Butylbenzene	mg/kg	.025	0.0273	109.	77.5-126	WG746986
n-Propylbenzene	mg/kg	.025	0.0263	105.	77.9-123	WG746986
Naphthalene	mg/kg	.025	0.0266	106.	69.8-128	WG746986
p-Isopropyltoluene	mg/kg	.025	0.0273	109.	75.8-129	WG746986
sec-Butylbenzene	mg/kg	.025	0.0258	103.	75.8-126	WG746986

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724705

October 07, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Styrene	mg/kg	.025	0.0275	110.	82.4-126	WG746986
tert-Butylbenzene	mg/kg	.025	0.0260	104.	76.4-126	WG746986
Tetrachloroethene	mg/kg	.025	0.0286	115.	73.9-125	WG746986
Toluene	mg/kg	.025	0.0270	108.	79.7-118	WG746986
trans-1,2-Dichloroethene	mg/kg	.025	0.0250	99.9	73.8-122	WG746986
trans-1,3-Dichloropropene	mg/kg	.025	0.0278	111.	75.9-124	WG746986
Trichloroethene	mg/kg	.025	0.0263	105.	77.9-118	WG746986
Trichlorofluoromethane	mg/kg	.025	0.0242	96.7	67.7-131	WG746986
Vinyl chloride	mg/kg	.025	0.0283	113.	66.7-130	WG746986
Xylenes, Total	mg/kg	.075	0.0812	108.	78.8-121	WG746986
4-Bromofluorobenzene				93.70	71-126	WG746986
Dibromofluoromethane				91.20	78.3-121	WG746986
Toluene-d8				101.0	88.5-111	WG746986
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0278	111.	72.9-124	WG746296
1,1,1-Trichloroethane	mg/kg	.025	0.0280	112.	73.7-124	WG746296
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0273	109.	69.4-122	WG746296
1,1,2-Trichloroethane	mg/kg	.025	0.0251	100.	79.1-118	WG746296
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0250	100.	70-146	WG746296
1,1-Dichloroethane	mg/kg	.025	0.0256	102.	75-124	WG746296
1,1-Dichloroethene	mg/kg	.025	0.0245	98.0	70.4-129	WG746296
1,1-Dichloropropene	mg/kg	.025	0.0254	102.	74.9-124	WG746296
1,2,3-Trichlorobenzene	mg/kg	.025	0.0355	142.*	69.3-131	WG746296
1,2,3-Trichloropropane	mg/kg	.025	0.0262	105.	71.4-123	WG746296
1,2,3-Trimethylbenzene	mg/kg	.025	0.0264	105.	73.6-113	WG746296
1,2,4-Trichlorobenzene	mg/kg	.025	0.0305	122.	71.9-137	WG746296
1,2,4-Trimethylbenzene	mg/kg	.025	0.0258	103.	75.5-122	WG746296
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0283	113.	62.8-133	WG746296
1,2-Dibromoethane	mg/kg	.025	0.0259	103.	78.6-120	WG746296
1,2-Dichlorobenzene	mg/kg	.025	0.0273	109.	78.3-118	WG746296
1,2-Dichloroethane	mg/kg	.025	0.0271	108.	70.1-124	WG746296
1,2-Dichloropropane	mg/kg	.025	0.0292	117.	77.9-119	WG746296
1,3,5-Trimethylbenzene	mg/kg	.025	0.0254	101.	75.9-124	WG746296
1,3-Dichlorobenzene	mg/kg	.025	0.0259	104.	72-126	WG746296
1,3-Dichloropropane	mg/kg	.025	0.0255	102.	79.1-117	WG746296
1,4-Dichlorobenzene	mg/kg	.025	0.0250	100.	78.3-117	WG746296
2,2-Dichloropropane	mg/kg	.025	0.0276	110.	61.3-136	WG746296
2-Butanone (MEK)	mg/kg	.125	0.130	104.	53.7-153	WG746296
2-Chloroethyl vinyl ether	mg/kg	.125	0.137	110.	37.7-157	WG746296
2-Chlorotoluene	mg/kg	.025	0.0257	103.	75.6-121	WG746296
4-Chlorotoluene	mg/kg	.025	0.0256	102.	77.3-120	WG746296
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.146	117.	70.4-137	WG746296
Acetone	mg/kg	.125	0.123	98.2	35.1-175	WG746296
Acrylonitrile	mg/kg	.125	0.141	113.	56.4-128	WG746296
Benzene	mg/kg	.025	0.0257	103.	77.1-121	WG746296
Bromobenzene	mg/kg	.025	0.0251	100.	78.2-115	WG746296
Bromodichloromethane	mg/kg	.025	0.0283	113.	74.9-115	WG746296
Bromoform	mg/kg	.025	0.0308	123.	65.9-132	WG746296
Bromomethane	mg/kg	.025	0.0300	120.	48.7-165	WG746296
Carbon tetrachloride	mg/kg	.025	0.0290	116.	70-124	WG746296
Chlorobenzene	mg/kg	.025	0.0252	101.	79.1-119	WG746296
Chlorodibromomethane	mg/kg	.025	0.0276	111.	73.5-121	WG746296
Chloroethane	mg/kg	.025	0.0304	122.	66.2-132	WG746296
Chloroform	mg/kg	.025	0.0261	105.	76.7-122	WG746296
Chloromethane	mg/kg	.025	0.0295	118.	63.4-131	WG746296
cis-1,2-Dichloroethene	mg/kg	.025	0.0255	102.	78.2-119	WG746296
cis-1,3-Dichloropropene	mg/kg	.025	0.0291	117.	79.6-120	WG746296
Di-isopropyl ether	mg/kg	.025	0.0275	110.	70.4-133	WG746296

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Level II

L724705

October 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Dibromomethane	mg/kg	.025	0.0281	113.	79.4-120	WG746296
Dichlorodifluoromethane	mg/kg	.025	0.0286	114.	57.1-137	WG746296
Ethylbenzene	mg/kg	.025	0.0255	102.	79.7-122	WG746296
Hexachloro-1,3-butadiene	mg/kg	.025	0.0297	119.	68.2-123	WG746296
Isopropylbenzene	mg/kg	.025	0.0258	103.	80-135	WG746296
Methyl tert-butyl ether	mg/kg	.025	0.0270	108.	73-129	WG746296
Methylene Chloride	mg/kg	.025	0.0238	95.1	72.6-120	WG746296
n-Butylbenzene	mg/kg	.025	0.0283	113.	77.5-126	WG746296
n-Propylbenzene	mg/kg	.025	0.0253	101.	77.9-123	WG746296
Naphthalene	mg/kg	.025	0.0309	124.	69.8-128	WG746296
p-Isopropyltoluene	mg/kg	.025	0.0269	107.	75.8-129	WG746296
sec-Butylbenzene	mg/kg	.025	0.0262	105.	75.8-126	WG746296
Styrene	mg/kg	.025	0.0261	105.	82.4-126	WG746296
tert-Butylbenzene	mg/kg	.025	0.0256	102.	76.4-126	WG746296
Tetrachloroethene	mg/kg	.025	0.0254	102.	73.9-125	WG746296
Toluene	mg/kg	.025	0.0262	105.	79.7-118	WG746296
trans-1,2-Dichloroethene	mg/kg	.025	0.0262	105.	73.8-122	WG746296
trans-1,3-Dichloropropene	mg/kg	.025	0.0284	114.	75.9-124	WG746296
Trichloroethene	mg/kg	.025	0.0269	108.	77.9-118	WG746296
Trichlorofluoromethane	mg/kg	.025	0.0299	120.	67.7-131	WG746296
Vinyl chloride	mg/kg	.025	0.0296	119.	66.7-130	WG746296
Xylenes, Total	mg/kg	.075	0.0748	99.7	78.8-121	WG746296
4-Bromofluorobenzene				95.80	71-126	WG746296
Dibromofluoromethane				99.50	78.3-121	WG746296
Toluene-d8				103.0	88.5-111	WG746296
Bromomethane	mg/l	.025	0.0234	93.7	49.9-162	WG747178
Naphthalene	mg/l	.025	0.0225	89.9	68.4-128	WG747178
4-Bromofluorobenzene				99.40	71-126	WG747178
Dibromofluoromethane				99.50	78.3-121	WG747178
Toluene-d8				98.40	88.5-111	WG747178
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0251	100.	74.2-124	WG746783
1,1,1-Trichloroethane	mg/l	.025	0.0224	89.8	73.2-123	WG746783
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0264	106.	70.7-122	WG746783
1,1,2-Trichloroethane	mg/l	.025	0.0245	97.8	77.7-118	WG746783
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0233	93.4	67.2-143	WG746783
1,1-Dichloroethane	mg/l	.025	0.0233	93.2	70.7-126	WG746783
1,1-Dichloroethene	mg/l	.025	0.0215	85.9	67.8-129	WG746783
1,1-Dichloropropene	mg/l	.025	0.0234	93.6	73.1-125	WG746783
1,2,3-Trichlorobenzene	mg/l	.025	0.0262	105.	64.9-135	WG746783
1,2,3-Trichloropropane	mg/l	.025	0.0256	102.	71.8-121	WG746783
1,2,3-Trimethylbenzene	mg/l	.025	0.0236	94.2	72.3-116	WG746783
1,2,4-Trichlorobenzene	mg/l	.025	0.0265	106.	69.7-136	WG746783
1,2,4-Trimethylbenzene	mg/l	.025	0.0253	101.	75-123	WG746783
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0260	104.	65.4-128	WG746783
1,2-Dibromoethane	mg/l	.025	0.0243	97.3	76.6-121	WG746783
1,2-Dichlorobenzene	mg/l	.025	0.0248	99.2	78.4-117	WG746783
1,2-Dichloroethane	mg/l	.025	0.0214	85.4	68.8-124	WG746783
1,2-Dichloropropane	mg/l	.025	0.0273	109.	76.5-119	WG746783
1,3,5-Trimethylbenzene	mg/l	.025	0.0255	102.	75.6-124	WG746783
1,3-Dichlorobenzene	mg/l	.025	0.0265	106.	70.8-128	WG746783
1,3-Dichloropropane	mg/l	.025	0.0244	97.4	77.4-117	WG746783
1,4-Dichlorobenzene	mg/l	.025	0.0255	102.	78.8-115	WG746783
2,2-Dichloropropane	mg/l	.025	0.0236	94.4	62.4-133	WG746783
2-Butanone (MEK)	mg/l	.125	0.120	96.4	55-149	WG746783
2-Chloroethyl vinyl ether	mg/l	.125	0.138	111.	43.8-150	WG746783

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Quality Assurance Report
Level II

L724705

October 07, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
2-Chlorotoluene	mg/l	.025	0.0246	98.2	74.7-122	WG746783
4-Chlorotoluene	mg/l	.025	0.0251	101.	77.5-120	WG746783
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.139	111.	70.5-133	WG746783
Acetone	mg/l	.125	0.115	92.1	35.6-163	WG746783
Acrolein	mg/l	.125	0.123	98.2	10-190	WG746783
Acrylonitrile	mg/l	.125	0.137	110.	55.2-130	WG746783
Benzene	mg/l	.025	0.0241	96.3	74.8-121	WG746783
Bromobenzene	mg/l	.025	0.0240	96.0	77.5-116	WG746783
Bromodichloromethane	mg/l	.025	0.0232	92.8	75.1-116	WG746783
Bromoform	mg/l	.025	0.0273	109.	67.5-130	WG746783
Carbon tetrachloride	mg/l	.025	0.0237	94.9	70.2-123	WG746783
Chlorobenzene	mg/l	.025	0.0248	99.2	78.1-119	WG746783
Chlorodibromomethane	mg/l	.025	0.0247	98.8	74-121	WG746783
Chloroethane	mg/l	.025	0.0264	106.	61.7-135	WG746783
Chloroform	mg/l	.025	0.0220	88.0	76-121	WG746783
Chloromethane	mg/l	.025	0.0271	108.	61.5-129	WG746783
cis-1,2-Dichloroethene	mg/l	.025	0.0245	97.9	76-119	WG746783
cis-1,3-Dichloropropene	mg/l	.025	0.0258	103.	78.2-120	WG746783
Di-isopropyl ether	mg/l	.025	0.0250	100.	65.6-132	WG746783
Dibromomethane	mg/l	.025	0.0243	97.2	79.5-118	WG746783
Dichlorodifluoromethane	mg/l	.025	0.0236	94.6	54.8-135	WG746783
Ethylbenzene	mg/l	.025	0.0255	102.	78.8-122	WG746783
Hexachloro-1,3-butadiene	mg/l	.025	0.0261	104.	64.7-129	WG746783
Isopropylbenzene	mg/l	.025	0.0247	99.0	78.6-132	WG746783
Methyl tert-butyl ether	mg/l	.025	0.0231	92.5	71.2-126	WG746783
Methylene Chloride	mg/l	.025	0.0228	91.3	70.3-120	WG746783
n-Butylbenzene	mg/l	.025	0.0258	103.	76.2-126	WG746783
n-Propylbenzene	mg/l	.025	0.0252	101.	78.2-122	WG746783
p-Isopropyltoluene	mg/l	.025	0.0262	105.	74-131	WG746783
sec-Butylbenzene	mg/l	.025	0.0249	99.7	74.4-127	WG746783
Styrene	mg/l	.025	0.0260	104.	80.4-126	WG746783
tert-Butylbenzene	mg/l	.025	0.0252	101.	75.3-126	WG746783
Tetrachloroethene	mg/l	.025	0.0277	111.	72.6-126	WG746783
Toluene	mg/l	.025	0.0257	103.	79.7-116	WG746783
trans-1,2-Dichloroethene	mg/l	.025	0.0230	91.9	72.6-121	WG746783
trans-1,3-Dichloropropene	mg/l	.025	0.0275	110.	74.3-123	WG746783
Trichloroethene	mg/l	.025	0.0250	100.	77.7-118	WG746783
Trichlorofluoromethane	mg/l	.025	0.0226	90.5	63.5-135	WG746783
Vinyl chloride	mg/l	.025	0.0266	107.	65.9-128	WG746783
Xylenes, Total	mg/l	.075	0.0763	102.	78.7-121	WG746783
4-Bromofluorobenzene				92.30	71-126	WG746783
Dibromofluoromethane				91.40	78.3-121	WG746783
Toluene-d8				101.0	88.5-111	WG746783

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0247	0.0250	99.0	72.9-124	1.02	20	WG746986
1,1,1-Trichloroethane	mg/kg	0.0235	0.0234	94.0	73.7-124	0.330	20	WG746986
1,1,2,2-Tetrachloroethane	mg/kg	0.0273	0.0280	109.	69.4-122	2.35	20	WG746986
1,1,2-Trichloroethane	mg/kg	0.0260	0.0255	104.	79.1-118	1.69	20	WG746986
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0239	0.0248	95.0	70-146	3.81	20	WG746986
1,1-Dichloroethane	mg/kg	0.0248	0.0248	99.0	75-124	0.0100	20	WG746986
1,1-Dichloroethene	mg/kg	0.0224	0.0228	90.0	70.4-129	1.92	20	WG746986
1,1-Dichloropropene	mg/kg	0.0242	0.0247	97.0	74.9-124	2.06	20	WG746986
1,2,3-Trichlorobenzene	mg/kg	0.0278	0.0274	111.	69.3-131	1.45	20	WG746986
1,2,3-Trichloropropane	mg/kg	0.0270	0.0281	108.	71.4-123	4.11	20	WG746986
1,2,3-Trimethylbenzene	mg/kg	0.0255	0.0250	102.	73.6-113	2.11	20	WG746986
1,2,4-Trichlorobenzene	mg/kg	0.0288	0.0282	115.	71.9-137	2.07	20	WG746986

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,2,4-Trimethylbenzene	mg/kg	0.0263	0.0262	105.	75.5-122	0.440	20	WG746986
1,2-Dibromo-3-Chloropropane	mg/kg	0.0265	0.0284	106.	62.8-133	7.01	20	WG746986
1,2-Dibromoethane	mg/kg	0.0260	0.0257	104.	78.6-120	1.18	20	WG746986
1,2-Dichlorobenzene	mg/kg	0.0260	0.0259	104.	78.3-118	0.110	20	WG746986
1,2-Dichloroethane	mg/kg	0.0220	0.0220	88.0	70.1-124	0.350	20	WG746986
1,2-Dichloropropane	mg/kg	0.0273	0.0287	109.	77.9-119	4.97	20	WG746986
1,3,5-Trimethylbenzene	mg/kg	0.0265	0.0263	106.	75.9-124	0.910	20	WG746986
1,3-Dichlorobenzene	mg/kg	0.0278	0.0277	111.	72-126	0.440	20	WG746986
1,3-Dichloropropane	mg/kg	0.0251	0.0258	100.	79.1-117	2.84	20	WG746986
1,4-Dichlorobenzene	mg/kg	0.0270	0.0266	108.	78.3-117	1.43	20	WG746986
2,2-Dichloropropane	mg/kg	0.0248	0.0249	99.0	61.3-136	0.360	20	WG746986
2-Butanone (MEK)	mg/kg	0.134	0.135	107.	53.7-153	0.740	21.2	WG746986
2-Chloroethyl vinyl ether	mg/kg	0.130	0.132	104.	37.7-157	1.29	20	WG746986
2-Chlorotoluene	mg/kg	0.0251	0.0250	100.	75.6-121	0.240	20	WG746986
4-Chlorotoluene	mg/kg	0.0261	0.0264	104.	77.3-120	1.24	20	WG746986
4-Methyl-2-pentanone (MIBK)	mg/kg	0.143	0.144	114.	70.4-137	0.400	20	WG746986
Acetone	mg/kg	0.130	0.131	104.	35.1-175	0.540	26.1	WG746986
Acrylonitrile	mg/kg	0.146	0.143	117.	56.4-128	2.63	20	WG746986
Benzene	mg/kg	0.0256	0.0256	102.	77.1-121	0.150	20	WG746986
Bromobenzene	mg/kg	0.0253	0.0244	101.	78.2-115	3.63	20	WG746986
Bromodichloromethane	mg/kg	0.0236	0.0239	94.0	74.9-115	1.10	20	WG746986
Bromoform	mg/kg	0.0282	0.0282	113.	65.9-132	0.0400	20	WG746986
Bromomethane	mg/kg	0.0297	0.0293	119.	48.7-165	1.55	20	WG746986
Carbon tetrachloride	mg/kg	0.0244	0.0243	97.0	70-124	0.0900	20	WG746986
Chlorobenzene	mg/kg	0.0262	0.0259	105.	79.1-119	1.13	20	WG746986
Chlorodibromomethane	mg/kg	0.0259	0.0261	104.	73.5-121	0.650	20	WG746986
Chloroethane	mg/kg	0.0276	0.0280	110.	66.2-132	1.53	20	WG746986
Chloroform	mg/kg	0.0231	0.0231	92.0	76.7-122	0.220	20	WG746986
Chloromethane	mg/kg	0.0287	0.0289	115.	63.4-131	0.570	20	WG746986
cis-1,2-Dichloroethene	mg/kg	0.0255	0.0250	102.	78.2-119	2.09	20	WG746986
cis-1,3-Dichloropropene	mg/kg	0.0273	0.0274	109.	79.6-120	0.650	20	WG746986
Di-isopropyl ether	mg/kg	0.0264	0.0262	105.	70.4-133	0.540	20	WG746986
Dibromomethane	mg/kg	0.0252	0.0258	101.	79.4-120	2.42	20	WG746986
Dichlorodifluoromethane	mg/kg	0.0252	0.0252	101.	57.1-137	0.210	20	WG746986
Ethylbenzene	mg/kg	0.0270	0.0266	108.	79.7-122	1.46	20	WG746986
Hexachloro-1,3-butadiene	mg/kg	0.0275	0.0268	110.	68.2-123	2.38	20	WG746986
Isopropylbenzene	mg/kg	0.0259	0.0261	104.	80-135	0.650	20	WG746986
Methyl tert-butyl ether	mg/kg	0.0246	0.0243	98.0	73-129	1.44	20	WG746986
Methylene Chloride	mg/kg	0.0232	0.0236	93.0	72.6-120	1.51	20	WG746986
n-Butylbenzene	mg/kg	0.0273	0.0273	109.	77.5-126	0.0400	20	WG746986
n-Propylbenzene	mg/kg	0.0260	0.0263	104.	77.9-123	1.27	20	WG746986
Naphthalene	mg/kg	0.0267	0.0266	107.	69.8-128	0.360	20	WG746986
p-Isopropyltoluene	mg/kg	0.0271	0.0273	108.	75.8-129	0.530	20	WG746986
sec-Butylbenzene	mg/kg	0.0261	0.0258	104.	75.8-126	1.01	20	WG746986
Styrene	mg/kg	0.0272	0.0275	109.	82.4-126	1.04	20	WG746986
tert-Butylbenzene	mg/kg	0.0259	0.0260	104.	76.4-126	0.330	20	WG746986
Tetrachloroethene	mg/kg	0.0282	0.0286	113.	73.9-125	1.51	20	WG746986
Toluene	mg/kg	0.0262	0.0270	105.	79.7-118	3.22	20	WG746986
trans-1,2-Dichloroethene	mg/kg	0.0247	0.0250	99.0	73.8-122	1.13	20	WG746986
trans-1,3-Dichloropropene	mg/kg	0.0276	0.0278	110.	75.9-124	0.490	20	WG746986
Trichloroethene	mg/kg	0.0261	0.0263	104.	77.9-118	0.770	20	WG746986
Trichlorofluoromethane	mg/kg	0.0239	0.0242	95.0	67.7-131	1.23	20	WG746986
Vinyl chloride	mg/kg	0.0277	0.0283	111.	66.7-130	2.17	20	WG746986
Xylenes, Total	mg/kg	0.0802	0.0812	107.	78.8-121	1.27	20	WG746986
4-Bromofluorobenzene				94.60	71-126			WG746986
Dibromofluoromethane				92.20	78.3-121			WG746986
Toluene-d8				99.40	88.5-111			WG746986

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Quality Assurance Report
Level II

October 07, 2014

L724705

		Laboratory Control Sample				Duplicate		
Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0277	0.0278	111.	72.9-124	0.440	20	WG746296
1,1,1-Trichloroethane	mg/kg	0.0286	0.0280	114.	73.7-124	1.94	20	WG746296
1,1,2,2-Tetrachloroethane	mg/kg	0.0257	0.0273	103.	69.4-122	5.98	20	WG746296
1,1,2-Trichloroethane	mg/kg	0.0247	0.0251	99.0	79.1-118	1.82	20	WG746296
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0238	0.0250	95.0	70-146	5.14	20	WG746296
1,1-Dichloroethane	mg/kg	0.0261	0.0256	104.	75-124	1.70	20	WG746296
1,1-Dichloroethene	mg/kg	0.0243	0.0245	97.0	70.4-129	0.950	20	WG746296
1,1-Dichloropropene	mg/kg	0.0260	0.0254	104.	74.9-124	2.40	20	WG746296
1,2,3-Trichlorobenzene	mg/kg	0.0354	0.0355	142*	69.3-131	0.0400	20	WG746296
1,2,3-Trichloropropane	mg/kg	0.0234	0.0262	94.0	71.4-123	11.2	20	WG746296
1,2,3-Trimethylbenzene	mg/kg	0.0266	0.0264	106.	73.6-113	1.05	20	WG746296
1,2,4-Trichlorobenzene	mg/kg	0.0313	0.0305	125.	71.9-137	2.57	20	WG746296
1,2,4-Trimethylbenzene	mg/kg	0.0251	0.0258	100.	75.5-122	2.60	20	WG746296
1,2-Dibromo-3-Chloropropane	mg/kg	0.0252	0.0283	101.	62.8-133	11.7	20	WG746296
1,2-Dibromoethane	mg/kg	0.0245	0.0259	98.0	78.6-120	5.32	20	WG746296
1,2-Dichlorobenzene	mg/kg	0.0268	0.0273	107.	78.3-118	2.19	20	WG746296
1,2-Dichloroethane	mg/kg	0.0283	0.0271	113.	70.1-124	4.51	20	WG746296
1,2-Dichloropropane	mg/kg	0.0279	0.0292	111.	77.9-119	4.70	20	WG746296
1,3,5-Trimethylbenzene	mg/kg	0.0249	0.0254	100.	75.9-124	1.70	20	WG746296
1,3-Dichlorobenzene	mg/kg	0.0250	0.0259	100.	72-126	3.75	20	WG746296
1,3-Dichloropropane	mg/kg	0.0246	0.0255	98.0	79.1-117	3.77	20	WG746296
1,4-Dichlorobenzene	mg/kg	0.0256	0.0250	102.	78.3-117	2.08	20	WG746296
2,2-Dichloropropane	mg/kg	0.0296	0.0276	118.	61.3-136	6.95	20	WG746296
2-Butanone (MEK)	mg/kg	0.124	0.130	99.0	53.7-153	5.07	21.2	WG746296
2-Chloroethyl vinyl ether	mg/kg	0.127	0.137	102.	37.7-157	7.22	20	WG746296
2-Chlorotoluene	mg/kg	0.0251	0.0257	100.	75.6-121	2.43	20	WG746296
4-Chlorotoluene	mg/kg	0.0250	0.0256	100.	77.3-120	2.02	20	WG746296
4-Methyl-2-pentanone (MIBK)	mg/kg	0.134	0.146	107.	70.4-137	8.74	20	WG746296
Acetone	mg/kg	0.122	0.123	98.0	35.1-175	0.580	26.1	WG746296
Acrylonitrile	mg/kg	0.139	0.141	111.	56.4-128	1.67	20	WG746296
Benzene	mg/kg	0.0258	0.0257	103.	77.1-121	0.580	20	WG746296
Bromobenzene	mg/kg	0.0240	0.0251	96.0	78.2-115	4.51	20	WG746296
Bromodichloromethane	mg/kg	0.0280	0.0283	112.	74.9-115	1.14	20	WG746296
Bromoform	mg/kg	0.0295	0.0308	118.	65.9-132	4.40	20	WG746296
Bromomethane	mg/kg	0.0289	0.0300	116.	48.7-165	3.53	20	WG746296
Carbon tetrachloride	mg/kg	0.0305	0.0290	122.	70-124	4.88	20	WG746296
Chlorobenzene	mg/kg	0.0238	0.0252	95.0	79.1-119	5.72	20	WG746296
Chlorodibromomethane	mg/kg	0.0268	0.0276	107.	73.5-121	3.07	20	WG746296
Chloroethane	mg/kg	0.0302	0.0304	121.	66.2-132	0.700	20	WG746296
Chloroform	mg/kg	0.0270	0.0261	108.	76.7-122	3.41	20	WG746296
Chloromethane	mg/kg	0.0289	0.0295	116.	63.4-131	2.19	20	WG746296
cis-1,2-Dichloroethene	mg/kg	0.0263	0.0255	105.	78.2-119	2.83	20	WG746296
cis-1,3-Dichloropropene	mg/kg	0.0280	0.0291	112.	79.6-120	3.99	20	WG746296
Di-isopropyl ether	mg/kg	0.0278	0.0275	111.	70.4-133	0.850	20	WG746296
Dibromomethane	mg/kg	0.0280	0.0281	112.	79.4-120	0.460	20	WG746296
Dichlorodifluoromethane	mg/kg	0.0277	0.0286	111.	57.1-137	2.97	20	WG746296
Ethylbenzene	mg/kg	0.0240	0.0255	96.0	79.7-122	5.92	20	WG746296
Hexachloro-1,3-butadiene	mg/kg	0.0308	0.0297	123.	68.2-123	3.82	20	WG746296
Isopropylbenzene	mg/kg	0.0249	0.0258	99.0	80-135	3.70	20	WG746296
Methyl tert-butyl ether	mg/kg	0.0267	0.0270	107.	73-129	1.08	20	WG746296
Methylene Chloride	mg/kg	0.0245	0.0238	98.0	72.6-120	2.86	20	WG746296
n-Butylbenzene	mg/kg	0.0282	0.0283	113.	77.5-126	0.310	20	WG746296
n-Propylbenzene	mg/kg	0.0248	0.0253	99.0	77.9-123	2.21	20	WG746296
Naphthalene	mg/kg	0.0301	0.0309	120.	69.8-128	2.50	20	WG746296
p-Isopropyltoluene	mg/kg	0.0257	0.0269	103.	75.8-129	4.22	20	WG746296
sec-Butylbenzene	mg/kg	0.0254	0.0262	101.	75.8-126	3.18	20	WG746296
Styrene	mg/kg	0.0252	0.0261	101.	82.4-126	3.60	20	WG746296
tert-Butylbenzene	mg/kg	0.0250	0.0256	100.	76.4-126	2.40	20	WG746296
Tetrachloroethene	mg/kg	0.0249	0.0254	100.	73.9-125	2.09	20	WG746296

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Quality Assurance Report
Level II

L724705

October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Toluene	mg/kg	0.0260	0.0262	104.	79.7-118	0.930	20	WG746296
trans-1,2-Dichloroethene	mg/kg	0.0267	0.0262	107.	73.8-122	1.80	20	WG746296
trans-1,3-Dichloropropene	mg/kg	0.0285	0.0284	114.	75.9-124	0.170	20	WG746296
Trichloroethene	mg/kg	0.0265	0.0269	106.	77.9-118	1.53	20	WG746296
Trichlorofluoromethane	mg/kg	0.0309	0.0299	123.	67.7-131	3.24	20	WG746296
Vinyl chloride	mg/kg	0.0281	0.0296	112.	66.7-130	5.43	20	WG746296
Xylenes, Total	mg/kg	0.0713	0.0748	95.0	78.8-121	4.75	20	WG746296
4-Bromofluorobenzene				94.20	71-126			WG746296
Dibromofluoromethane				99.00	78.3-121			WG746296
Toluene-d8				102.0	88.5-111			WG746296
Bromomethane	mg/l	0.0228	0.0234	91.0	49.9-162	2.76	20	WG747178
Naphthalene	mg/l	0.0213	0.0225	85.0	68.4-128	5.25	20	WG747178
4-Bromofluorobenzene				101.0	71-126			WG747178
Dibromofluoromethane				98.60	78.3-121			WG747178
Toluene-d8				100.0	88.5-111			WG747178
1,1,1,2-Tetrachloroethane	mg/l	0.0255	0.0251	102.	74.2-124	1.80	20	WG746783
1,1,1-Trichloroethane	mg/l	0.0230	0.0224	92.0	73.2-123	2.30	20	WG746783
1,1,2,2-Tetrachloroethane	mg/l	0.0264	0.0264	106.	70.7-122	0.0700	20	WG746783
1,1,2-Trichloroethane	mg/l	0.0252	0.0245	101.	77.7-118	2.83	20	WG746783
1,1,2-Trichlorotrifluoroethane	mg/l	0.0234	0.0233	94.0	67.2-143	0.390	20	WG746783
1,1-Dichloroethane	mg/l	0.0240	0.0233	96.0	70.7-126	2.98	20	WG746783
1,1-Dichloroethene	mg/l	0.0217	0.0215	87.0	67.8-129	1.04	20	WG746783
1,1-Dichloropropene	mg/l	0.0235	0.0234	94.0	73.1-125	0.370	20	WG746783
1,2,3-Trichlorobenzene	mg/l	0.0266	0.0262	106.	64.9-135	1.42	20	WG746783
1,2,3-Trichloropropane	mg/l	0.0256	0.0256	102.	71.8-121	0.0100	20	WG746783
1,2,3-Trimethylbenzene	mg/l	0.0244	0.0236	98.0	72.3-116	3.55	20	WG746783
1,2,4-Trichlorobenzene	mg/l	0.0271	0.0265	108.	69.7-136	2.28	20	WG746783
1,2,4-Trimethylbenzene	mg/l	0.0259	0.0253	104.	75-123	2.66	20	WG746783
1,2-Dibromo-3-Chloropropane	mg/l	0.0242	0.0260	97.0	65.4-128	7.03	20	WG746783
1,2-Dibromoethane	mg/l	0.0252	0.0243	101.	76.6-121	3.69	20	WG746783
1,2-Dichlorobenzene	mg/l	0.0251	0.0248	100.	78.4-117	1.03	20	WG746783
1,2-Dichloroethane	mg/l	0.0211	0.0214	84.0	68.8-124	1.13	20	WG746783
1,2-Dichloropropane	mg/l	0.0270	0.0273	108.	76.5-119	0.870	20	WG746783
1,3,5-Trimethylbenzene	mg/l	0.0262	0.0255	105.	75.6-124	2.50	20	WG746783
1,3-Dichlorobenzene	mg/l	0.0271	0.0265	108.	70.8-128	1.99	20	WG746783
1,3-Dichloropropane	mg/l	0.0253	0.0244	101.	77.4-117	3.62	20	WG746783
1,4-Dichlorobenzene	mg/l	0.0257	0.0255	103.	78.8-115	0.700	20	WG746783
2,2-Dichloropropane	mg/l	0.0237	0.0236	95.0	62.4-133	0.340	20	WG746783
2-Butanone (MEK)	mg/l	0.117	0.120	93.0	55-149	3.25	20	WG746783
2-Chloroethyl vinyl ether	mg/l	0.135	0.138	108.	43.8-150	2.53	20	WG746783
2-Chlorotoluene	mg/l	0.0252	0.0246	101.	74.7-122	2.62	20	WG746783
4-Chlorotoluene	mg/l	0.0258	0.0251	103.	77.5-120	2.50	20	WG746783
4-Methyl-2-pentanone (MIBK)	mg/l	0.133	0.139	106.	70.5-133	4.36	20	WG746783
Acetone	mg/l	0.112	0.115	89.0	35.6-163	2.99	23.9	WG746783
Acrolein	mg/l	0.118	0.123	94.0	10-190	3.91	28.1	WG746783
Acrylonitrile	mg/l	0.138	0.137	110.	55.2-130	0.400	20	WG746783
Benzene	mg/l	0.0246	0.0241	98.0	74.8-121	2.21	20	WG746783
Bromobenzene	mg/l	0.0249	0.0240	99.0	77.5-116	3.48	20	WG746783
Bromodichloromethane	mg/l	0.0237	0.0232	95.0	75.1-116	2.17	20	WG746783
Bromoform	mg/l	0.0274	0.0273	109.	67.5-130	0.350	20	WG746783
Carbon tetrachloride	mg/l	0.0233	0.0237	93.0	70.2-123	1.63	20	WG746783
Chlorobenzene	mg/l	0.0259	0.0248	104.	78.1-119	4.48	20	WG746783
Chlorodibromomethane	mg/l	0.0256	0.0247	102.	74-121	3.62	20	WG746783
Chloroethane	mg/l	0.0262	0.0264	105.	61.7-135	0.770	20	WG746783
Chloroform	mg/l	0.0224	0.0220	90.0	76-121	1.94	20	WG746783

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Level II

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October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Chloromethane	mg/l	0.0272	0.0271	109.	61.5-129	0.160	20	WG746783
cis-1,2-Dichloroethene	mg/l	0.0245	0.0245	98.0	76-119	0.0400	20	WG746783
cis-1,3-Dichloropropene	mg/l	0.0259	0.0258	104.	78.2-120	0.650	20	WG746783
Di-isopropyl ether	mg/l	0.0252	0.0250	101.	65.6-132	0.690	20	WG746783
Dibromomethane	mg/l	0.0241	0.0243	96.0	79.5-118	0.620	20	WG746783
Dichlorodifluoromethane	mg/l	0.0227	0.0236	91.0	54.8-135	4.18	20	WG746783
Ethylbenzene	mg/l	0.0262	0.0255	105.	78.8-122	2.40	20	WG746783
Hexachloro-1,3-butadiene	mg/l	0.0268	0.0261	107.	64.7-129	2.75	20	WG746783
Isopropylbenzene	mg/l	0.0257	0.0247	103.	78.6-132	3.75	20	WG746783
Methyl tert-butyl ether	mg/l	0.0235	0.0231	94.0	71.2-126	1.59	20	WG746783
Methylene Chloride	mg/l	0.0233	0.0228	93.0	70.3-120	2.21	20	WG746783
n-Butylbenzene	mg/l	0.0263	0.0258	105.	76.2-126	1.70	20	WG746783
n-Propylbenzene	mg/l	0.0259	0.0252	104.	78.2-122	2.81	20	WG746783
p-Isopropyltoluene	mg/l	0.0274	0.0262	110.	74-131	4.41	20	WG746783
sec-Butylbenzene	mg/l	0.0257	0.0249	103.	74.4-127	3.14	20	WG746783
Styrene	mg/l	0.0274	0.0260	110.	80.4-126	5.21	20	WG746783
tert-Butylbenzene	mg/l	0.0256	0.0252	102.	75.3-126	1.77	20	WG746783
Tetrachloroethene	mg/l	0.0288	0.0277	115.	72.6-126	3.71	20	WG746783
Toluene	mg/l	0.0259	0.0257	103.	79.7-116	0.620	20	WG746783
trans-1,2-Dichloroethene	mg/l	0.0234	0.0230	94.0	72.6-121	1.81	20	WG746783
trans-1,3-Dichloropropene	mg/l	0.0273	0.0275	109.	74.3-123	0.750	20	WG746783
Trichloroethene	mg/l	0.0261	0.0250	104.	77.7-118	4.15	20	WG746783
Trichlorofluoromethane	mg/l	0.0228	0.0226	91.0	63.5-135	1.02	20	WG746783
Vinyl chloride	mg/l	0.0264	0.0266	106.	65.9-128	0.720	20	WG746783
Xylenes, Total	mg/l	0.0790	0.0763	105.	78.7-121	3.37	20	WG746783
4-Bromofluorobenzene				96.10	71-126			WG746783
Dibromofluoromethane				90.20	78.3-121			WG746783
Toluene-d8				100.0	88.5-111			WG746783

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.118	0.0	.025	95.0	64-128	L725513-02	WG746986
1,1,1-Trichloroethane	mg/kg	0.118	0.0	.025	94.0	58.7-134	L725513-02	WG746986
1,1,2,2-Tetrachloroethane	mg/kg	0.127	0.0	.025	100.	56-132	L725513-02	WG746986
1,1,2-Trichloroethane	mg/kg	0.123	0.0	.025	98.0	66.3-125	L725513-02	WG746986
1,1,2-Trichlorotrifluoroethane	mg/kg	0.120	0.0	.025	96.0	54.8-154	L725513-02	WG746986
1,1-Dichloroethane	mg/kg	0.124	0.0	.025	99.0	58.5-132	L725513-02	WG746986
1,1-Dichloroethene	mg/kg	0.113	0.0	.025	90.0	51.1-140	L725513-02	WG746986
1,1-Dichloropropene	mg/kg	0.122	0.0	.025	97.0	57.3-136	L725513-02	WG746986
1,2,3-Trichlorobenzene	mg/kg	0.115	0.0	.025	92.0	59.1-138	L725513-02	WG746986
1,2,3-Trichloropropane	mg/kg	0.125	0.0	.025	100.	61.4-128	L725513-02	WG746986
1,2,3-Trimethylbenzene	mg/kg	0.117	0.0	.025	93.0	61.3-122	L725513-02	WG746986
1,2,4-Trichlorobenzene	mg/kg	0.123	0.0	.025	98.0	63.6-143	L725513-02	WG746986
1,2,4-Trimethylbenzene	mg/kg	0.124	0.0	.025	100.	57.4-137	L725513-02	WG746986
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.0	.025	97.0	57.3-136	L725513-02	WG746986
1,2-Dibromoethane	mg/kg	0.126	0.0	.025	100.	67.1-125	L725513-02	WG746986
1,2-Dichlorobenzene	mg/kg	0.117	0.0	.025	94.0	68.2-123	L725513-02	WG746986
1,2-Dichloroethane	mg/kg	0.107	0.0	.025	86.0	60-126	L725513-02	WG746986
1,2-Dichloropropane	mg/kg	0.134	0.0	.025	110.	64.2-123	L725513-02	WG746986
1,3,5-Trimethylbenzene	mg/kg	0.126	0.0	.025	100.	63.6-132	L725513-02	WG746986
1,3-Dichlorobenzene	mg/kg	0.127	0.0	.025	100.	63.1-131	L725513-02	WG746986
1,3-Dichloropropane	mg/kg	0.123	0.0	.025	99.0	67.9-121	L725513-02	WG746986
1,4-Dichlorobenzene	mg/kg	0.125	0.0	.025	100.	68.6-123	L725513-02	WG746986
2,2-Dichloropropane	mg/kg	0.126	0.0	.025	100.	50.5-144	L725513-02	WG746986
2-Butanone (MEK)	mg/kg	0.667	0.0	.125	110.	22.4-138	L725513-02	WG746986
2-Chloroethyl vinyl ether	mg/kg	0.631	0.0	.125	100.	10-155	L725513-02	WG746986
2-Chlorotoluene	mg/kg	0.119	0.0	.025	95.0	63.6-128	L725513-02	WG746986
4-Chlorotoluene	mg/kg	0.122	0.0	.025	98.0	65.7-127	L725513-02	WG746986

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Quality Assurance Report
Level II

L724705

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Methyl-2-pentanone (MIBK)	mg/kg	0.696	0.0	.125	110.	60.8-140	L725513-02	WG746986
Acetone	mg/kg	0.667	0.0139	.125	100.	10-130	L725513-02	WG746986
Acrylonitrile	mg/kg	0.724	0.0	.125	120.	49.4-133	L725513-02	WG746986
Benzene	mg/kg	0.127	0.0	.025	100.	54.3-133	L725513-02	WG746986
Bromobenzene	mg/kg	0.119	0.0	.025	95.0	63.9-124	L725513-02	WG746986
Bromodichloromethane	mg/kg	0.117	0.0	.025	94.0	63.9-121	L725513-02	WG746986
Bromoform	mg/kg	0.135	0.0	.025	110.	59.5-134	L725513-02	WG746986
Bromomethane	mg/kg	0.150	0.0	.025	120.	41.7-155	L725513-02	WG746986
Carbon tetrachloride	mg/kg	0.121	0.0	.025	97.0	55.7-134	L725513-02	WG746986
Chlorobenzene	mg/kg	0.124	0.0	.025	99.0	67-125	L725513-02	WG746986
Chlorodibromomethane	mg/kg	0.124	0.0	.025	99.0	64.3-125	L725513-02	WG746986
Chloroethane	mg/kg	0.135	0.0	.025	110.	51.5-136	L725513-02	WG746986
Chloroform	mg/kg	0.116	0.0	.025	93.0	63-129	L725513-02	WG746986
Chloromethane	mg/kg	0.144	0.0	.025	120.	42.4-135	L725513-02	WG746986
cis-1,2-Dichloroethene	mg/kg	0.127	0.0	.025	100.	59.2-129	L725513-02	WG746986
cis-1,3-Dichloropropene	mg/kg	0.130	0.0	.025	100.	66.4-125	L725513-02	WG746986
Di-isopropyl ether	mg/kg	0.130	0.0	.025	100.	56.9-136	L725513-02	WG746986
Dibromomethane	mg/kg	0.124	0.0	.025	99.0	68.2-124	L725513-02	WG746986
Dichlorodifluoromethane	mg/kg	0.133	0.0	.025	110.	40.6-144	L725513-02	WG746986
Ethylbenzene	mg/kg	0.128	0.0	.025	100.	61.4-133	L725513-02	WG746986
Hexachloro-1,3-butadiene	mg/kg	0.120	0.0	.025	96.0	55.1-136	L725513-02	WG746986
Isopropylbenzene	mg/kg	0.125	0.0	.025	100.	66.8-141	L725513-02	WG746986
Methyl tert-butyl ether	mg/kg	0.121	0.0	.025	96.0	57.7-134	L725513-02	WG746986
Methylene Chloride	mg/kg	0.117	0.000416	.025	93.0	58.1-122	L725513-02	WG746986
n-Butylbenzene	mg/kg	0.126	0.0	.025	100.	62.7-140	L725513-02	WG746986
n-Propylbenzene	mg/kg	0.123	0.0	.025	99.0	10-176	L725513-02	WG746986
Naphthalene	mg/kg	0.113	0.0	.025	90.0	58-135	L725513-02	WG746986
p-Isopropyltoluene	mg/kg	0.127	0.0	.025	100.	63.2-139	L725513-02	WG746986
sec-Butylbenzene	mg/kg	0.121	0.0	.025	97.0	62.2-136	L725513-02	WG746986
Styrene	mg/kg	0.127	0.0	.025	100.	66.8-133	L725513-02	WG746986
tert-Butylbenzene	mg/kg	0.123	0.0	.025	98.0	63.3-134	L725513-02	WG746986
Tetrachloroethene	mg/kg	0.139	0.0	.025	110.	53-139	L725513-02	WG746986
Toluene	mg/kg	0.129	0.0	.025	100.	61.4-130	L725513-02	WG746986
trans-1,2-Dichloroethene	mg/kg	0.123	0.0	.025	99.0	56.5-129	L725513-02	WG746986
trans-1,3-Dichloropropene	mg/kg	0.136	0.0	.025	110.	64.1-128	L725513-02	WG746986
Trichloroethene	mg/kg	0.130	0.0	.025	100.	44.1-149	L725513-02	WG746986
Trichlorofluoromethane	mg/kg	0.119	0.0	.025	95.0	49.6-145	L725513-02	WG746986
Vinyl chloride	mg/kg	0.139	0.0	.025	110.	47.8-137	L725513-02	WG746986
Xylenes, Total	mg/kg	0.381	0.0	.075	100.	63.3-131	L725513-02	WG746986
4-Bromofluorobenzene					93.70	71-126		WG746986
Dibromofluoromethane					94.90	78.3-121		WG746986
Toluene-d8					101.0	88.5-111		WG746986
1,1,1,2-Tetrachloroethane	mg/kg	0.130	0.0	.025	100.	64-128	L724624-01	WG746296
1,1,1-Trichloroethane	mg/kg	0.137	0.0	.025	110.	58.7-134	L724624-01	WG746296
1,1,2,2-Tetrachloroethane	mg/kg	0.129	0.0	.025	100.	56-132	L724624-01	WG746296
1,1,2-Trichloroethane	mg/kg	0.122	0.0	.025	98.0	66.3-125	L724624-01	WG746296
1,1,2-Trichlorotrifluoroethane	mg/kg	0.117	0.0	.025	93.0	54.8-154	L724624-01	WG746296
1,1-Dichloroethane	mg/kg	0.126	0.0	.025	100.	58.5-132	L724624-01	WG746296
1,1-Dichloroethene	mg/kg	0.109	0.0	.025	87.0	51.1-140	L724624-01	WG746296
1,1-Dichloropropene	mg/kg	0.115	0.0	.025	92.0	57.3-136	L724624-01	WG746296
1,2,3-Trichlorobenzene	mg/kg	0.115	0.0	.025	92.0	59.1-138	L724624-01	WG746296
1,2,3-Trichloropropane	mg/kg	0.121	0.0	.025	96.0	61.4-128	L724624-01	WG746296
1,2,3-Trimethylbenzene	mg/kg	0.114	0.0	.025	91.0	61.3-122	L724624-01	WG746296
1,2,4-Trichlorobenzene	mg/kg	0.0989	0.0	.025	79.0	63.6-143	L724624-01	WG746296
1,2,4-Trimethylbenzene	mg/kg	0.108	0.0	.025	86.0	57.4-137	L724624-01	WG746296
1,2-Dibromo-3-Chloropropane	mg/kg	0.119	0.0	.025	95.0	57.3-136	L724624-01	WG746296
1,2-Dibromoethane	mg/kg	0.122	0.0	.025	97.0	67.1-125	L724624-01	WG746296

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichlorobenzene	mg/kg	0.108	0.0	.025	87.0	68.2-123	L724624-01	WG746296
1,2-Dichloroethane	mg/kg	0.132	0.0	.025	100.	60-126	L724624-01	WG746296
1,2-Dichloropropane	mg/kg	0.131	0.0	.025	100.	64.2-123	L724624-01	WG746296
1,3,5-Trimethylbenzene	mg/kg	0.107	0.0	.025	86.0	63.6-132	L724624-01	WG746296
1,3-Dichlorobenzene	mg/kg	0.0998	0.0	.025	80.0	63.1-131	L724624-01	WG746296
1,3-Dichloropropane	mg/kg	0.120	0.0	.025	96.0	67.9-121	L724624-01	WG746296
1,4-Dichlorobenzene	mg/kg	0.0984	0.0	.025	79.0	68.6-123	L724624-01	WG746296
2,2-Dichloropropane	mg/kg	0.145	0.0	.025	120.	50.5-144	L724624-01	WG746296
2-Butanone (MEK)	mg/kg	0.627	0.0	.125	100.	22.4-138	L724624-01	WG746296
2-Chloroethyl vinyl ether	mg/kg	0.591	0.0	.125	94.0	10-155	L724624-01	WG746296
2-Chlorotoluene	mg/kg	0.106	0.0	.025	85.0	63.6-128	L724624-01	WG746296
4-Chlorotoluene	mg/kg	0.102	0.0	.025	82.0	65.7-127	L724624-01	WG746296
4-Methyl-2-pentanone (MIBK)	mg/kg	0.699	0.0	.125	110.	60.8-140	L724624-01	WG746296
Acetone	mg/kg	0.616	0.0190	.125	96.0	10-130	L724624-01	WG746296
Acrylonitrile	mg/kg	0.715	0.0	.125	110.	49.4-133	L724624-01	WG746296
Benzene	mg/kg	0.122	0.0	.025	97.0	54.3-133	L724624-01	WG746296
Bromobenzene	mg/kg	0.105	0.0	.025	84.0	63.9-124	L724624-01	WG746296
Bromodichloromethane	mg/kg	0.133	0.0	.025	110.	63.9-121	L724624-01	WG746296
Bromoform	mg/kg	0.137	0.0	.025	110.	59.5-134	L724624-01	WG746296
Bromomethane	mg/kg	0.148	0.0	.025	120.	41.7-155	L724624-01	WG746296
Carbon tetrachloride	mg/kg	0.137	0.0	.025	110.	55.7-134	L724624-01	WG746296
Chlorobenzene	mg/kg	0.109	0.0	.025	87.0	67-125	L724624-01	WG746296
Chlorodibromomethane	mg/kg	0.126	0.0	.025	100.	64.3-125	L724624-01	WG746296
Chloroethane	mg/kg	0.146	0.0	.025	120.	51.5-136	L724624-01	WG746296
Chloroform	mg/kg	0.127	0.0	.025	100.	63-129	L724624-01	WG746296
Chloromethane	mg/kg	0.149	0.0	.025	120.	42.4-135	L724624-01	WG746296
cis-1,2-Dichloroethene	mg/kg	0.119	0.0	.025	96.0	59.2-129	L724624-01	WG746296
cis-1,3-Dichloropropene	mg/kg	0.129	0.0	.025	100.	66.4-125	L724624-01	WG746296
Di-isopropyl ether	mg/kg	0.133	0.0	.025	110.	56.9-136	L724624-01	WG746296
Dibromomethane	mg/kg	0.128	0.0	.025	100.	68.2-124	L724624-01	WG746296
Dichlorodifluoromethane	mg/kg	0.133	0.0	.025	110.	40.6-144	L724624-01	WG746296
Ethylbenzene	mg/kg	0.108	0.0	.025	86.0	61.4-133	L724624-01	WG746296
Hexachloro-1,3-butadiene	mg/kg	0.0949	0.0	.025	76.0	55.1-136	L724624-01	WG746296
Isopropylbenzene	mg/kg	0.108	0.0	.025	86.0	66.8-141	L724624-01	WG746296
Methyl tert-butyl ether	mg/kg	0.131	0.0	.025	100.	57.7-134	L724624-01	WG746296
Methylene Chloride	mg/kg	0.115	0.0	.025	92.0	58.1-122	L724624-01	WG746296
n-Butylbenzene	mg/kg	0.0988	0.0	.025	79.0	62.7-140	L724624-01	WG746296
n-Propylbenzene	mg/kg	0.102	0.0	.025	82.0	10-176	L724624-01	WG746296
Naphthalene	mg/kg	0.108	0.0	.025	86.0	58-135	L724624-01	WG746296
p-Isopropyltoluene	mg/kg	0.106	0.0	.025	85.0	63.2-139	L724624-01	WG746296
sec-Butylbenzene	mg/kg	0.104	0.0	.025	83.0	62.2-136	L724624-01	WG746296
Styrene	mg/kg	0.111	0.0	.025	88.0	66.8-133	L724624-01	WG746296
tert-Butylbenzene	mg/kg	0.110	0.0	.025	88.0	63.3-134	L724624-01	WG746296
Tetrachloroethene	mg/kg	0.105	0.0	.025	84.0	53-139	L724624-01	WG746296
Toluene	mg/kg	0.118	0.000384	.025	94.0	61.4-130	L724624-01	WG746296
trans-1,2-Dichloroethene	mg/kg	0.120	0.0	.025	96.0	56.5-129	L724624-01	WG746296
trans-1,3-Dichloropropene	mg/kg	0.131	0.0	.025	100.	64.1-128	L724624-01	WG746296
Trichloroethene	mg/kg	0.118	0.0	.025	94.0	44.1-149	L724624-01	WG746296
Trichlorofluoromethane	mg/kg	0.149	0.0	.025	120.	49.6-145	L724624-01	WG746296
Vinyl chloride	mg/kg	0.140	0.0	.025	110.	47.8-137	L724624-01	WG746296
Xylenes, Total	mg/kg	0.329	0.000436	.075	88.0	63.3-131	L724624-01	WG746296
4-Bromofluorobenzene					95.60	71-126		WG746296
Dibromofluoromethane					102.0	78.3-121		WG746296
Toluene-d8					105.0	88.5-111		WG746296
Bromomethane	mg/l	0.0231	0.0	.025	92.0	41.7-155	L725717-01	WG747178
Naphthalene	mg/l	0.0226	0.0	.025	90.0	58-135	L725717-01	WG747178
4-Bromofluorobenzene					98.30	71-126		WG747178

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Quality Assurance Report
Level II

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Dibromofluoromethane					93.90	78.3-121		
Toluene-d8					99.40	88.5-111		
1,1,1,2-Tetrachloroethane	mg/l	0.0263	0.0	.025	100.	64-128	L725493-06	WG746783
1,1,1-Trichloroethane	mg/l	0.0238	0.0	.025	95.0	58.7-134	L725493-06	WG746783
1,1,2,2-Tetrachloroethane	mg/l	0.0298	0.0	.025	120.	56-132	L725493-06	WG746783
1,1,2-Trichloroethane	mg/l	0.0275	0.0	.025	110.	66.3-125	L725493-06	WG746783
1,1,2-Trichlorotrifluoroethane	mg/l	0.0253	0.0	.025	100.	54.8-154	L725493-06	WG746783
1,1-Dichloroethane	mg/l	0.0251	0.0	.025	100.	58.5-132	L725493-06	WG746783
1,1-Dichloroethene	mg/l	0.0222	0.0	.025	89.0	51.1-140	L725493-06	WG746783
1,1-Dichloropropene	mg/l	0.0240	0.0	.025	96.0	57.3-136	L725493-06	WG746783
1,2,3-Trichlorobenzene	mg/l	0.0270	0.0	.025	110.	59.1-138	L725493-06	WG746783
1,2,3-Trichloropropane	mg/l	0.0287	0.0	.025	120.	61.4-128	L725493-06	WG746783
1,2,3-Trimethylbenzene	mg/l	0.0253	0.0	.025	100.	61.3-122	L725493-06	WG746783
1,2,4-Trichlorobenzene	mg/l	0.0282	0.0	.025	110.	63.6-143	L725493-06	WG746783
1,2,4-Trimethylbenzene	mg/l	0.0271	0.0	.025	110.	57.4-137	L725493-06	WG746783
1,2-Dibromo-3-Chloropropane	mg/l	0.0287	0.0	.025	120.	57.3-136	L725493-06	WG746783
1,2-Dibromoethane	mg/l	0.0277	0.0	.025	110.	67.1-125	L725493-06	WG746783
1,2-Dichlorobenzene	mg/l	0.0262	0.0	.025	100.	68.2-123	L725493-06	WG746783
1,2-Dichloroethane	mg/l	0.0227	0.0	.025	91.0	60-126	L725493-06	WG746783
1,2-Dichloropropane	mg/l	0.0285	0.0	.025	110.	64.2-123	L725493-06	WG746783
1,3,5-Trimethylbenzene	mg/l	0.0272	0.0	.025	110.	63.6-132	L725493-06	WG746783
1,3-Dichlorobenzene	mg/l	0.0280	0.0	.025	110.	63.1-131	L725493-06	WG746783
1,3-Dichloropropane	mg/l	0.0269	0.0	.025	110.	67.9-121	L725493-06	WG746783
1,4-Dichlorobenzene	mg/l	0.0269	0.0	.025	110.	68.6-123	L725493-06	WG746783
2,2-Dichloropropane	mg/l	0.0251	0.0	.025	100.	50.5-144	L725493-06	WG746783
2-Butanone (MEK)	mg/l	0.144	0.0	.125	120.	22.4-138	L725493-06	WG746783
2-Chloroethyl vinyl ether	mg/l	0.0	0.0	.125	0.0*	10-155	L725493-06	WG746783
2-Chlorotoluene	mg/l	0.0266	0.0	.025	110.	63.6-128	L725493-06	WG746783
4-Chlorotoluene	mg/l	0.0267	0.0	.025	110.	65.7-127	L725493-06	WG746783
4-Methyl-2-pentanone (MIBK)	mg/l	0.157	0.0	.125	130.	60.8-140	L725493-06	WG746783
Acetone	mg/l	0.130	0.00159	.125	100.	10-130	L725493-06	WG746783
Acrolein	mg/l	0.146	0.0	.125	120.	10-200	L725493-06	WG746783
Acrylonitrile	mg/l	0.156	0.0	.125	120.	49.4-133	L725493-06	WG746783
Benzene	mg/l	0.0258	0.0	.025	100.	54.3-133	L725493-06	WG746783
Bromobenzene	mg/l	0.0260	0.0	.025	100.	63.9-124	L725493-06	WG746783
Bromodichloromethane	mg/l	0.0246	0.0	.025	99.0	63.9-121	L725493-06	WG746783
Bromoform	mg/l	0.0300	0.0	.025	120.	59.5-134	L725493-06	WG746783
Carbon tetrachloride	mg/l	0.0250	0.0	.025	100.	55.7-134	L725493-06	WG746783
Chlorobenzene	mg/l	0.0263	0.0	.025	100.	67-125	L725493-06	WG746783
Chlorodibromomethane	mg/l	0.0269	0.0	.025	110.	64.3-125	L725493-06	WG746783
Chloroethane	mg/l	0.0269	0.0	.025	110.	51.5-136	L725493-06	WG746783
Chloroform	mg/l	0.0240	0.0	.025	96.0	63-129	L725493-06	WG746783
Chloromethane	mg/l	0.0281	0.0	.025	110.	42.4-135	L725493-06	WG746783
cis-1,2-Dichloroethene	mg/l	0.0292	0.00371	.025	100.	59.2-129	L725493-06	WG746783
cis-1,3-Dichloropropene	mg/l	0.0274	0.0	.025	110.	66.4-125	L725493-06	WG746783
Di-isopropyl ether	mg/l	0.0270	0.0	.025	110.	56.9-136	L725493-06	WG746783
Dibromomethane	mg/l	0.0268	0.0	.025	110.	68.2-124	L725493-06	WG746783
Dichlorodifluoromethane	mg/l	0.0253	0.0	.025	100.	40.6-144	L725493-06	WG746783
Ethylbenzene	mg/l	0.0273	0.0	.025	110.	61.4-133	L725493-06	WG746783
Hexachloro-1,3-butadiene	mg/l	0.0275	0.0	.025	110.	55.1-136	L725493-06	WG746783
Isopropylbenzene	mg/l	0.0269	0.0	.025	110.	66.8-141	L725493-06	WG746783
Methyl tert-butyl ether	mg/l	0.0258	0.0	.025	100.	57.7-134	L725493-06	WG746783
Methylene Chloride	mg/l	0.0242	0.0	.025	97.0	58.1-122	L725493-06	WG746783
n-Butylbenzene	mg/l	0.0278	0.0	.025	110.	62.7-140	L725493-06	WG746783
n-Propylbenzene	mg/l	0.0269	0.0	.025	110.	65.9-131	L725493-06	WG746783
p-Isopropyltoluene	mg/l	0.0279	0.0	.025	110.	63.2-139	L725493-06	WG746783
sec-Butylbenzene	mg/l	0.0268	0.0	.025	110.	62.2-136	L725493-06	WG746783
Styrene	mg/l	0.0283	0.0	.025	110.	66.8-133	L725493-06	WG746783
tert-Butylbenzene	mg/l	0.0268	0.0	.025	110.	63.3-134	L725493-06	WG746783

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Quality Assurance Report
Level II

L724705

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Tetrachloroethene	mg/l	0.0346	0.00621	.025	110.	53-139	L725493-06	WG746783
Toluene	mg/l	0.0269	0.0	.025	110.	61.4-130	L725493-06	WG746783
trans-1,2-Dichloroethene	mg/l	0.0243	0.0	.025	97.0	56.5-129	L725493-06	WG746783
trans-1,3-Dichloropropene	mg/l	0.0291	0.0	.025	120.	64.1-128	L725493-06	WG746783
Trichloroethene	mg/l	0.0288	0.00252	.025	100.	44.1-149	L725493-06	WG746783
Trichlorofluoromethane	mg/l	0.0242	0.0	.025	97.0	49.6-145	L725493-06	WG746783
Vinyl chloride	mg/l	0.0272	0.0	.025	110.	47.8-137	L725493-06	WG746783
Xylenes, Total	mg/l	0.0819	0.0	.075	110.	63.3-131	L725493-06	WG746783
4-Bromofluorobenzene					93.80	71-126		WG746783
Dibromofluoromethane					92.90	78.3-121		WG746783
Toluene-d8					99.80	88.5-111		WG746783

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.109	0.118	87.0	64-128	8.51	20	L725513-02	WG746986
1,1,1-Trichloroethane	mg/kg	0.109	0.118	86.9	58.7-134	7.89	20	L725513-02	WG746986
1,1,2,2-Tetrachloroethane	mg/kg	0.118	0.127	94.4	56-132	7.46	22.2	L725513-02	WG746986
1,1,2-Trichloroethane	mg/kg	0.109	0.123	87.2	66.3-125	11.9	20	L725513-02	WG746986
1,1,2-Trichlorotrifluoroethane	mg/kg	0.107	0.120	85.7	54.8-154	11.5	22.5	L725513-02	WG746986
1,1-Dichloroethane	mg/kg	0.111	0.124	89.1	58.5-132	10.9	20	L725513-02	WG746986
1,1-Dichloroethene	mg/kg	0.102	0.113	81.6	51.1-140	10.3	20.2	L725513-02	WG746986
1,1-Dichloropropene	mg/kg	0.106	0.122	84.7	57.3-136	13.7	20	L725513-02	WG746986
1,2,3-Trichlorobenzene	mg/kg	0.104	0.115	83.0	59.1-138	10.4	23.7	L725513-02	WG746986
1,2,3-Trichloropropane	mg/kg	0.118	0.125	94.2	61.4-128	5.93	22.4	L725513-02	WG746986
1,2,3-Trimethylbenzene	mg/kg	0.102	0.117	81.9	61.3-122	13.2	20	L725513-02	WG746986
1,2,4-Trichlorobenzene	mg/kg	0.109	0.123	87.4	63.6-143	11.8	21.9	L725513-02	WG746986
1,2,4-Trimethylbenzene	mg/kg	0.107	0.124	85.3	57.4-137	15.4	20	L725513-02	WG746986
1,2-Dibromo-3-Chloropropane	mg/kg	0.122	0.122	97.7	57.3-136	0.440	27	L725513-02	WG746986
1,2-Dibromoethane	mg/kg	0.114	0.126	91.4	67.1-125	9.96	20	L725513-02	WG746986
1,2-Dichlorobenzene	mg/kg	0.106	0.117	84.8	68.2-123	10.2	20	L725513-02	WG746986
1,2-Dichloroethane	mg/kg	0.0981	0.107	78.4	60-126	8.60	20	L725513-02	WG746986
1,2-Dichloropropane	mg/kg	0.123	0.134	98.8	64.2-123	8.55	20	L725513-02	WG746986
1,3,5-Trimethylbenzene	mg/kg	0.108	0.126	86.5	63.6-132	14.9	20.5	L725513-02	WG746986
1,3-Dichlorobenzene	mg/kg	0.110	0.127	87.6	63.1-131	14.5	20	L725513-02	WG746986
1,3-Dichloropropane	mg/kg	0.112	0.123	89.4	67.9-121	9.77	20	L725513-02	WG746986
1,4-Dichlorobenzene	mg/kg	0.108	0.125	86.6	68.6-123	14.2	20	L725513-02	WG746986
2,2-Dichloropropane	mg/kg	0.112	0.126	89.9	50.5-144	11.8	21.9	L725513-02	WG746986
2-Butanone (MEK)	mg/kg	0.652	0.667	104.	22.4-138	2.17	27	L725513-02	WG746986
2-Chloroethyl vinyl ether	mg/kg	0.588	0.631	94.0	10-155	7.18	40	L725513-02	WG746986
2-Chlorotoluene	mg/kg	0.105	0.119	84.4	63.6-128	12.3	20	L725513-02	WG746986
4-Chlorotoluene	mg/kg	0.105	0.122	83.6	65.7-127	15.7	20	L725513-02	WG746986
4-Methyl-2-pentanone (MIBK)	mg/kg	0.688	0.696	110.	60.8-140	1.22	25.1	L725513-02	WG746986
Acetone	mg/kg	0.659	0.667	103.	10-130	1.31	27.9	L725513-02	WG746986
Acrylonitrile	mg/kg	0.689	0.724	110.	49.4-133	4.96	25.3	L725513-02	WG746986
Benzene	mg/kg	0.113	0.127	90.0	54.3-133	12.0	20	L725513-02	WG746986
Bromobenzene	mg/kg	0.104	0.119	83.2	63.9-124	13.7	20	L725513-02	WG746986
Bromodichloromethane	mg/kg	0.108	0.117	86.6	63.9-121	7.99	20	L725513-02	WG746986
Bromoform	mg/kg	0.124	0.135	99.2	59.5-134	8.30	20.8	L725513-02	WG746986
Bromomethane	mg/kg	0.137	0.150	109.	41.7-155	9.04	20.5	L725513-02	WG746986
Carbon tetrachloride	mg/kg	0.107	0.121	85.8	55.7-134	12.4	20.3	L725513-02	WG746986
Chlorobenzene	mg/kg	0.109	0.124	87.5	67-125	12.5	20	L725513-02	WG746986
Chlorodibromomethane	mg/kg	0.112	0.124	89.3	64.3-125	10.3	20	L725513-02	WG746986
Chloroethane	mg/kg	0.117	0.135	93.4	51.5-136	14.8	20.8	L725513-02	WG746986
Chloroform	mg/kg	0.104	0.116	83.4	63-129	10.9	20	L725513-02	WG746986
Chloromethane	mg/kg	0.128	0.144	102.	42.4-135	11.8	20	L725513-02	WG746986
cis-1,2-Dichloroethene	mg/kg	0.113	0.127	90.5	59.2-129	11.3	20	L725513-02	WG746986
cis-1,3-Dichloropropene	mg/kg	0.121	0.130	96.4	66.4-125	7.31	20	L725513-02	WG746986
Di-isopropyl ether	mg/kg	0.117	0.130	93.2	56.9-136	11.1	20	L725513-02	WG746986

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Quality Assurance Report
Level II

L724705

October 07, 2014

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Dibromomethane	mg/kg	0.116	0.124	93.1	68.2-124	6.15	20	L725513-02	WG746986
Dichlorodifluoromethane	mg/kg	0.117	0.133	93.7	40.6-144	12.7	20.2	L725513-02	WG746986
Ethylbenzene	mg/kg	0.110	0.128	88.3	61.4-133	14.9	20	L725513-02	WG746986
Hexachloro-1,3-butadiene	mg/kg	0.0942	0.120	75.4	55.1-136	24.1*	23.6	L725513-02	WG746986
Isopropylbenzene	mg/kg	0.106	0.125	85.1	66.8-141	16.0	20	L725513-02	WG746986
Methyl tert-butyl ether	mg/kg	0.112	0.121	89.6	57.7-134	7.42	20	L725513-02	WG746986
Methylene Chloride	mg/kg	0.105	0.117	83.8	58.1-122	10.7	20	L725513-02	WG746986
n-Butylbenzene	mg/kg	0.106	0.126	84.8	62.7-140	17.2	20	L725513-02	WG746986
n-Propylbenzene	mg/kg	0.105	0.123	84.0	10-176	16.1	26.6	L725513-02	WG746986
Naphthalene	mg/kg	0.110	0.113	87.8	58-135	2.45	25.5	L725513-02	WG746986
p-Isopropyltoluene	mg/kg	0.109	0.127	87.2	63.2-139	15.2	20.4	L725513-02	WG746986
sec-Butylbenzene	mg/kg	0.102	0.121	81.7	62.2-136	17.3	20.3	L725513-02	WG746986
Styrene	mg/kg	0.114	0.127	91.1	66.8-133	10.6	20	L725513-02	WG746986
tert-Butylbenzene	mg/kg	0.106	0.123	84.7	63.3-134	14.5	20.3	L725513-02	WG746986
Tetrachloroethene	mg/kg	0.116	0.139	93.0	53-139	18.1	20	L725513-02	WG746986
Toluene	mg/kg	0.117	0.129	93.3	61.4-130	9.83	20	L725513-02	WG746986
trans-1,2-Dichloroethene	mg/kg	0.108	0.123	86.0	56.5-129	13.8	20	L725513-02	WG746986
trans-1,3-Dichloropropene	mg/kg	0.131	0.136	105.	64.1-128	3.30	20	L725513-02	WG746986
Trichloroethene	mg/kg	0.116	0.130	93.0	44.1-149	11.0	20	L725513-02	WG746986
Trichlorofluoromethane	mg/kg	0.107	0.119	85.3	49.6-145	11.2	21.2	L725513-02	WG746986
Vinyl chloride	mg/kg	0.124	0.139	99.5	47.8-137	11.2	20	L725513-02	WG746986
Xylenes, Total	mg/kg	0.333	0.381	88.7	63.3-131	13.7	20	L725513-02	WG746986
4-Bromofluorobenzene				91.70	71-126				WG746986
Dibromofluoromethane				94.20	78.3-121				WG746986
Toluene-d8				101.0	88.5-111				WG746986
1,1,1,2-Tetrachloroethane	mg/kg	0.133	0.130	106.	64-128	1.63	20	L724624-01	WG746296
1,1,1-Trichloroethane	mg/kg	0.136	0.137	109.	58.7-134	0.570	20	L724624-01	WG746296
1,1,2,2-Tetrachloroethane	mg/kg	0.129	0.129	103.	56-132	0.510	22.2	L724624-01	WG746296
1,1,2-Trichloroethane	mg/kg	0.122	0.122	97.8	66.3-125	0.100	20	L724624-01	WG746296
1,1,2-Trichlorotrifluoroethane	mg/kg	0.109	0.117	87.5	54.8-154	6.47	22.5	L724624-01	WG746296
1,1-Dichloroethane	mg/kg	0.125	0.126	99.6	58.5-132	1.00	20	L724624-01	WG746296
1,1-Dichloroethene	mg/kg	0.109	0.109	87.0	51.1-140	0.220	20.2	L724624-01	WG746296
1,1-Dichloropropene	mg/kg	0.113	0.115	90.8	57.3-136	1.66	20	L724624-01	WG746296
1,2,3-Trichlorobenzene	mg/kg	0.109	0.115	87.3	59.1-138	5.12	23.7	L724624-01	WG746296
1,2,3-Trichloropropane	mg/kg	0.122	0.121	97.5	61.4-128	1.07	22.4	L724624-01	WG746296
1,2,3-Trimethylbenzene	mg/kg	0.118	0.114	94.1	61.3-122	3.00	20	L724624-01	WG746296
1,2,4-Trichlorobenzene	mg/kg	0.0906	0.0989	72.5	63.6-143	8.70	21.9	L724624-01	WG746296
1,2,4-Trimethylbenzene	mg/kg	0.108	0.108	86.1	57.4-137	0.390	20	L724624-01	WG746296
1,2-Dibromo-3-Chloropropane	mg/kg	0.121	0.119	96.4	57.3-136	1.63	27	L724624-01	WG746296
1,2-Dibromoethane	mg/kg	0.116	0.122	92.5	67.1-125	5.04	20	L724624-01	WG746296
1,2-Dichlorobenzene	mg/kg	0.105	0.108	84.4	68.2-123	2.73	20	L724624-01	WG746296
1,2-Dichloroethane	mg/kg	0.131	0.132	105.	60-126	0.260	20	L724624-01	WG746296
1,2-Dichloropropane	mg/kg	0.134	0.131	107.	64.2-123	2.37	20	L724624-01	WG746296
1,3,5-Trimethylbenzene	mg/kg	0.110	0.107	87.6	63.6-132	2.30	20.5	L724624-01	WG746296
1,3-Dichlorobenzene	mg/kg	0.101	0.0998	80.7	63.1-131	1.12	20	L724624-01	WG746296
1,3-Dichloropropane	mg/kg	0.121	0.120	96.5	67.9-121	0.540	20	L724624-01	WG746296
1,4-Dichlorobenzene	mg/kg	0.0987	0.0984	78.9	68.6-123	0.220	20	L724624-01	WG746296
2,2-Dichloropropane	mg/kg	0.141	0.145	113.	50.5-144	2.23	21.9	L724624-01	WG746296
2-Butanone (MEK)	mg/kg	0.628	0.627	100.	22.4-138	0.210	27	L724624-01	WG746296
2-Chloroethyl vinyl ether	mg/kg	0.610	0.591	97.6	10-155	3.28	40	L724624-01	WG746296
2-Chlorotoluene	mg/kg	0.109	0.106	87.2	63.6-128	2.58	20	L724624-01	WG746296
4-Chlorotoluene	mg/kg	0.103	0.102	82.6	65.7-127	0.730	20	L724624-01	WG746296
4-Methyl-2-pentanone (MIBK)	mg/kg	0.667	0.699	107.	60.8-140	4.77	25.1	L724624-01	WG746296
Acetone	mg/kg	0.605	0.616	93.7	10-130	1.94	27.9	L724624-01	WG746296
Acrylonitrile	mg/kg	0.685	0.715	110.	49.4-133	4.24	25.3	L724624-01	WG746296
Benzene	mg/kg	0.119	0.122	95.4	54.3-133	1.94	20	L724624-01	WG746296
Bromobenzene	mg/kg	0.108	0.105	86.4	63.9-124	2.70	20	L724624-01	WG746296

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Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Bromodichloromethane	mg/kg	0.131	0.133	105.	63.9-121	1.33	20	L724624-01	WG746296
Bromoform	mg/kg	0.144	0.137	115.	59.5-134	5.09	20.8	L724624-01	WG746296
Bromomethane	mg/kg	0.137	0.148	109.	41.7-155	8.34	20.5	L724624-01	WG746296
Carbon tetrachloride	mg/kg	0.141	0.137	113.	55.7-134	3.32	20.3	L724624-01	WG746296
Chlorobenzene	mg/kg	0.109	0.109	87.0	67-125	0.120	20	L724624-01	WG746296
Chlorodibromomethane	mg/kg	0.129	0.126	103.	64.3-125	1.84	20	L724624-01	WG746296
Chloroethane	mg/kg	0.141	0.146	113.	51.5-136	3.05	20.8	L724624-01	WG746296
Chloroform	mg/kg	0.126	0.127	101.	63-129	0.680	20	L724624-01	WG746296
Chloromethane	mg/kg	0.138	0.149	111.	42.4-135	7.17	20	L724624-01	WG746296
cis-1,2-Dichloroethene	mg/kg	0.125	0.119	100.	59.2-129	4.95	20	L724624-01	WG746296
cis-1,3-Dichloropropene	mg/kg	0.129	0.129	103.	66.4-125	0.250	20	L724624-01	WG746296
Di-isopropyl ether	mg/kg	0.137	0.133	109.	56.9-136	2.29	20	L724624-01	WG746296
Dibromomethane	mg/kg	0.124	0.128	99.2	68.2-124	3.28	20	L724624-01	WG746296
Dichlorodifluoromethane	mg/kg	0.129	0.133	103.	40.6-144	3.07	20.2	L724624-01	WG746296
Ethylbenzene	mg/kg	0.109	0.108	87.1	61.4-133	1.14	20	L724624-01	WG746296
Hexachloro-1,3-butadiene	mg/kg	0.0883	0.0949	70.6	55.1-136	7.22	23.6	L724624-01	WG746296
Isopropylbenzene	mg/kg	0.113	0.108	90.3	66.8-141	4.40	20	L724624-01	WG746296
Methyl tert-butyl ether	mg/kg	0.132	0.131	105.	57.7-134	0.500	20	L724624-01	WG746296
Methylene Chloride	mg/kg	0.114	0.115	91.2	58.1-122	0.700	20	L724624-01	WG746296
n-Butylbenzene	mg/kg	0.0947	0.0988	75.8	62.7-140	4.25	20	L724624-01	WG746296
n-Propylbenzene	mg/kg	0.104	0.102	83.3	10-176	1.83	26.6	L724624-01	WG746296
Naphthalene	mg/kg	0.107	0.108	85.8	58-135	0.610	25.5	L724624-01	WG746296
p-Isopropyltoluene	mg/kg	0.105	0.106	84.2	63.2-139	0.630	20.4	L724624-01	WG746296
sec-Butylbenzene	mg/kg	0.105	0.104	84.0	62.2-136	0.910	20.3	L724624-01	WG746296
Styrene	mg/kg	0.113	0.111	90.5	66.8-133	2.31	20	L724624-01	WG746296
tert-Butylbenzene	mg/kg	0.112	0.110	89.2	63.3-134	1.73	20.3	L724624-01	WG746296
Tetrachloroethene	mg/kg	0.107	0.105	85.3	53-139	1.85	20	L724624-01	WG746296
Toluene	mg/kg	0.118	0.118	94.2	61.4-130	0.510	20	L724624-01	WG746296
trans-1,2-Dichloroethene	mg/kg	0.120	0.120	95.8	56.5-129	0.260	20	L724624-01	WG746296
trans-1,3-Dichloropropene	mg/kg	0.124	0.131	99.4	64.1-128	5.57	20	L724624-01	WG746296
Trichloroethene	mg/kg	0.119	0.118	95.4	44.1-149	1.41	20	L724624-01	WG746296
Trichlorofluoromethane	mg/kg	0.139	0.149	111.	49.6-145	7.25	21.2	L724624-01	WG746296
Vinyl chloride	mg/kg	0.136	0.140	109.	47.8-137	3.38	20	L724624-01	WG746296
Xylenes, Total	mg/kg	0.329	0.329	87.7	63.3-131	0.140	20	L724624-01	WG746296
4-Bromofluorobenzene				96.30	71-126				WG746296
Dibromofluoromethane				101.0	78.3-121				WG746296
Toluene-d8				104.0	88.5-111				WG746296
Bromomethane	mg/l	0.0210	0.0231	84.0	41.7-155	9.69	21.9	L725717-01	WG747178
Naphthalene	mg/l	0.0224	0.0226	89.7	58-135	0.720	25.5	L725717-01	WG747178
4-Bromofluorobenzene				96.30	71-126				WG747178
Dibromofluoromethane				95.80	78.3-121				WG747178
Toluene-d8				98.90	88.5-111				WG747178
1,1,1,2-Tetrachloroethane	mg/l	0.0247	0.0263	98.7	64-128	6.18	20	L725493-06	WG746783
1,1,1-Trichloroethane	mg/l	0.0230	0.0238	91.9	58.7-134	3.35	20	L725493-06	WG746783
1,1,2,2-Tetrachloroethane	mg/l	0.0286	0.0298	114.	56-132	4.03	22.2	L725493-06	WG746783
1,1,2-Trichloroethane	mg/l	0.0258	0.0275	103.	66.3-125	6.25	20	L725493-06	WG746783
1,1,2-Trichlorotrifluoroethane	mg/l	0.0243	0.0253	97.3	54.8-154	3.87	22.5	L725493-06	WG746783
1,1-Dichloroethane	mg/l	0.0239	0.0251	95.5	58.5-132	4.98	20	L725493-06	WG746783
1,1-Dichloroethene	mg/l	0.0218	0.0222	87.2	51.1-140	1.72	20.2	L725493-06	WG746783
1,1-Dichloropropene	mg/l	0.0234	0.0240	93.5	57.3-136	2.71	20	L725493-06	WG746783
1,2,3-Trichlorobenzene	mg/l	0.0273	0.0270	109.	59.1-138	0.870	23.7	L725493-06	WG746783
1,2,3-Trichloropropane	mg/l	0.0271	0.0287	108.	61.4-128	5.89	22.4	L725493-06	WG746783
1,2,3-Trimethylbenzene	mg/l	0.0244	0.0253	97.7	61.3-122	3.42	20	L725493-06	WG746783
1,2,4-Trichlorobenzene	mg/l	0.0278	0.0282	111.	63.6-143	1.59	21.9	L725493-06	WG746783
1,2,4-Trimethylbenzene	mg/l	0.0248	0.0271	99.2	57.4-137	8.79	20	L725493-06	WG746783

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Quality Assurance Report
Level II

L724705

October 07, 2014

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dibromo-3-Chloropropane	mg/l	0.0294	0.0287	118.	57.3-136	2.45	27	L725493-06	WG746783
1,2-Dibromoethane	mg/l	0.0259	0.0277	104.	67.1-125	6.76	20	L725493-06	WG746783
1,2-Dichlorobenzene	mg/l	0.0255	0.0262	102.	68.2-123	2.59	20	L725493-06	WG746783
1,2-Dichloroethane	mg/l	0.0218	0.0227	87.2	60-126	4.19	20	L725493-06	WG746783
1,2-Dichloropropane	mg/l	0.0277	0.0285	111.	64.2-123	2.63	20	L725493-06	WG746783
1,3,5-Trimethylbenzene	mg/l	0.0255	0.0272	102.	63.6-132	6.50	20.5	L725493-06	WG746783
1,3-Dichlorobenzene	mg/l	0.0265	0.0280	106.	63.1-131	5.65	20	L725493-06	WG746783
1,3-Dichloropropane	mg/l	0.0252	0.0269	101.	67.9-121	6.42	20	L725493-06	WG746783
1,4-Dichlorobenzene	mg/l	0.0259	0.0269	104.	68.6-123	3.59	20	L725493-06	WG746783
2,2-Dichloropropane	mg/l	0.0245	0.0251	98.2	50.5-144	2.40	21.9	L725493-06	WG746783
2-Butanone (MEK)	mg/l	0.140	0.144	112.	22.4-138	2.24	27	L725493-06	WG746783
2-Chloroethyl vinyl ether	mg/l	0.000362	0.0	0.290*	10-155	200.*	20	L725493-06	WG746783
2-Chlorotoluene	mg/l	0.0243	0.0266	97.1	63.6-128	9.10	20	L725493-06	WG746783
4-Chlorotoluene	mg/l	0.0252	0.0267	101.	65.7-127	5.58	20	L725493-06	WG746783
4-Methyl-2-pentanone (MIBK)	mg/l	0.152	0.157	122.	60.8-140	3.25	25.1	L725493-06	WG746783
Acetone	mg/l	0.128	0.130	101.	10-130	1.16	27.9	L725493-06	WG746783
Acrolein	mg/l	0.142	0.146	113.	10-200	2.82	27.7	L725493-06	WG746783
Acrylonitrile	mg/l	0.153	0.156	122.	49.4-133	1.80	25.3	L725493-06	WG746783
Benzene	mg/l	0.0246	0.0258	98.6	54.3-133	4.66	20	L725493-06	WG746783
Bromobenzene	mg/l	0.0239	0.0260	95.6	63.9-124	8.39	20	L725493-06	WG746783
Bromodichloromethane	mg/l	0.0233	0.0246	93.0	63.9-121	5.78	20	L725493-06	WG746783
Bromoform	mg/l	0.0278	0.0300	111.	59.5-134	7.54	20.5	L725493-06	WG746783
Carbon tetrachloride	mg/l	0.0242	0.0250	97.0	55.7-134	3.20	20	L725493-06	WG746783
Chlorobenzene	mg/l	0.0254	0.0263	102.	67-125	3.59	20	L725493-06	WG746783
Chlorodibromomethane	mg/l	0.0253	0.0269	101.	64.3-125	6.01	20.8	L725493-06	WG746783
Chloroethane	mg/l	0.0263	0.0269	105.	51.5-136	2.25	40	L725493-06	WG746783
Chloroform	mg/l	0.0228	0.0240	91.1	63-129	5.23	20	L725493-06	WG746783
Chloromethane	mg/l	0.0259	0.0281	104.	42.4-135	8.04	20	L725493-06	WG746783
cis-1,2-Dichloroethene	mg/l	0.0287	0.0292	100.	59.2-129	1.65	20	L725493-06	WG746783
cis-1,3-Dichloropropene	mg/l	0.0255	0.0274	102.	66.4-125	7.18	20	L725493-06	WG746783
Di-isopropyl ether	mg/l	0.0253	0.0270	101.	56.9-136	6.69	20	L725493-06	WG746783
Dibromomethane	mg/l	0.0252	0.0268	101.	68.2-124	6.16	20	L725493-06	WG746783
Dichlorodifluoromethane	mg/l	0.0257	0.0253	103.	40.6-144	1.56	20.2	L725493-06	WG746783
Ethylbenzene	mg/l	0.0260	0.0273	104.	61.4-133	4.89	20	L725493-06	WG746783
Hexachloro-1,3-butadiene	mg/l	0.0274	0.0275	110.	55.1-136	0.270	23.6	L725493-06	WG746783
Isopropylbenzene	mg/l	0.0254	0.0269	102.	66.8-141	5.70	20	L725493-06	WG746783
Methyl tert-butyl ether	mg/l	0.0245	0.0258	97.9	57.7-134	5.29	20	L725493-06	WG746783
Methylene Chloride	mg/l	0.0226	0.0242	90.4	58.1-122	6.83	20	L725493-06	WG746783
n-Butylbenzene	mg/l	0.0267	0.0278	107.	62.7-140	3.94	20.3	L725493-06	WG746783
n-Propylbenzene	mg/l	0.0254	0.0269	102.	65.9-131	5.66	20	L725493-06	WG746783
p-Isopropyltoluene	mg/l	0.0266	0.0279	106.	63.2-139	4.87	20.4	L725493-06	WG746783
sec-Butylbenzene	mg/l	0.0254	0.0268	102.	62.2-136	5.34	20.3	L725493-06	WG746783
Styrene	mg/l	0.0260	0.0283	104.	66.8-133	8.15	20	L725493-06	WG746783
tert-Butylbenzene	mg/l	0.0254	0.0268	101.	63.3-134	5.31	21	L725493-06	WG746783
Tetrachloroethene	mg/l	0.0339	0.0346	111.	53-139	2.08	20	L725493-06	WG746783
Toluene	mg/l	0.0259	0.0269	104.	61.4-130	3.61	20	L725493-06	WG746783
trans-1,2-Dichloroethene	mg/l	0.0239	0.0243	95.8	56.5-129	1.46	20	L725493-06	WG746783
trans-1,3-Dichloropropene	mg/l	0.0273	0.0291	109.	64.1-128	6.56	20	L725493-06	WG746783
Trichloroethene	mg/l	0.0275	0.0288	100.	44.1-149	4.51	20	L725493-06	WG746783
Trichlorofluoromethane	mg/l	0.0236	0.0242	94.3	49.6-145	2.40	21.2	L725493-06	WG746783
Vinyl chloride	mg/l	0.0268	0.0272	107.	47.8-137	1.75	20	L725493-06	WG746783
Xylenes, Total	mg/l	0.0770	0.0819	103.	63.3-131	6.19	20	L725493-06	WG746783
4-Bromofluorobenzene				94.00	71-126				WG746783
Dibromofluoromethane				92.50	78.3-121				WG746783
Toluene-d8				101.0	88.5-111				WG746783

Batch number /Run number / Sample number cross reference

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Seattle, WA 98161

Quality Assurance Report
Level II

L724705

October 07, 2014

WG746211: R2994481: L724705-01
WG746364: R2994798: L724705-02 03 04
WG746986: R2995473: L724705-01
WG746296: R2995620: L724705-02 03 04
WG747178: R2995806: L724705-06
WG746783: R2995810: L724705-06

* * Calculations are performed prior to rounding of reported values.
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October 07, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

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Report to: Matt Diehl

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

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project
Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Ctnrs	TS / VOC Screen 4oz Clr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40ml Amb-HCl-Blk
AS-28-10	Grab	SS	10	9-22-14	1145	4	X	X	
AS-29-5	GRAB	SS	5	9-23-14	0955	4	X	X	
SVE-18-5	Grab	SS	5	9-23-14	1440	4	X	X	
SVE-19-5	Grab	SS	5	9-24-14	0900	4	X	X	
AS7-5	Grab	SS	5	9-24-14	1126	4	X	X	
TRIP BLANK		GW				1			X

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ____

Remarks: 1089 7181 1410

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	9-26-14	1445	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

pH ____ Temp ____
Flow ____ Other ____

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ____

Temp: 2.6 °C Bottles Received: 21

Date: 9/30/14 Time: 0900

Hold #

Condition: (lab use only) OK TGI

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF: NO

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L# L734785

Table # F136

Acctnum: PESENVSWA

Template: T97039

Prelogin: P483489

TSR: 358 - Jarred Willis

PB:

Shipped Via: FedEx Ground

Sample # (lab only)
01
02
03
04
05

Matt Shacklock

ESC Lab Sciences
Non-Conformance Form

Login #:L724705	Client: PESENVSWA	Date:9/30/14	Evaluated by:Matt S

Non-Conformance (check applicable items)

	Sample Integrity		Chain of Custody Clarification		
	Parameter(s) past holding time	x	Login Clarification Needed		If Broken Container:
	Improper temperature		Chain of custody is incomplete		Insufficient packing material around container
	Improper container type		Please specify Metals requested.		Insufficient packing material inside cooler
	Improper preservation		Please specify TCLP requested.		Improper handling by carrier (FedEx / UPS / Courie
	Insufficient sample volume.		Received additional samples not listed on coc.		Sample was frozen
	Sample is biphasic.		Sample ids on containers do not match ids on coc		Container lid not intact
	Vials received with headspace.		Trip Blank not received.		If no Chain of Custody:
	Broken container		Client did not "X" analysis.		Received by:
	Broken container:		Chain of Custody is missing		Date/Time:
	Sufficient sample remains				Temp./Cont. Rec./pH:
					Carrier:
					Tracking#

Login Comments: Container says SVE-17-5, but COC says SVE-19-5

Logged by COC

Client informed by:		Call		Email		Voice Mail		Date:	Time:
TSR Initials:	Client Contact:								

Login Instructions:

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Report Summary

Wednesday October 08, 2014

Report Number: L724975
Samples Received: 10/01/14
Client Project: 1358.001.01.009

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-18A

Collected By : JoAnne Ellis
Collection Date : 09/29/14 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.7		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.14	0.058	mg/kg	8260B	10/05/14	1.05
Acrylonitrile	BDL	0.012	mg/kg	8260B	10/05/14	1.05
Benzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromoform	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromomethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chloroethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
2-Chloroethyl vinyl ether	BDL	0.058	mg/kg	8260B	10/05/14	1.05
Chloroform	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
Chloromethane	BDL	0.0029	mg/kg	8260B	10/05/14	1.05
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dibromo-3-Chloropropane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Dibromomethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Dichlorodifluoromethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Ethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-18A

Collected By : JoAnne Ellis
Collection Date : 09/29/14 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
2-Butanone (MEK)	BDL	0.012	mg/kg	8260B	10/05/14	1.05
Methylene Chloride	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	10/05/14	1.05
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Naphthalene	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Styrene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2-Trichlorotrifluoroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Tetrachloroethene	0.0049	0.0012	mg/kg	8260B	10/05/14	1.05
Toluene	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Trichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Trichlorofluoromethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2,3-Trichloropropane	BDL	0.0029	mg/kg	8260B	10/05/14	1.05
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Vinyl chloride	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Xylenes, Total	BDL	0.0035	mg/kg	8260B	10/05/14	1.05
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1.05
Dibromofluoromethane	106.		% Rec.	8260B	10/05/14	1.05
4-Bromofluorobenzene	75.8		% Rec.	8260B	10/05/14	1.05

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-17

Collected By : JoAnne Ellis
Collection Date : 09/29/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.33	0.058	mg/kg	8260B	10/05/14	1.05
Acrylonitrile	BDL	0.012	mg/kg	8260B	10/05/14	1.05
Benzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromodichloromethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromoform	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Bromomethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
n-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
sec-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
tert-Butylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Carbon tetrachloride	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chlorodibromomethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Chloroethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
2-Chloroethyl vinyl ether	BDL	0.058	mg/kg	8260B	10/05/14	1.05
Chloroform	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
Chloromethane	BDL	0.0029	mg/kg	8260B	10/05/14	1.05
2-Chlorotoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
4-Chlorotoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dibromo-3-Chloropropane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Dibromomethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Dichlorodifluoromethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Di-isopropyl ether	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Ethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Isopropylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05

Results listed are dry weight basis.
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Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-17

Collected By : JoAnne Ellis
Collection Date : 09/29/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
2-Butanone (MEK)	0.011	0.012	mg/kg	8260B	10/05/14	1.05
Methylene Chloride	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260B	10/05/14	1.05
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Naphthalene	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
n-Propylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Styrene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2-Trichlorotrifluoroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Tetrachloroethene	0.044	0.0012	mg/kg	8260B	10/05/14	1.05
Toluene	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Trichloroethene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Trichlorofluoromethane	BDL	0.0058	mg/kg	8260B	10/05/14	1.05
1,2,3-Trichloropropane	BDL	0.0029	mg/kg	8260B	10/05/14	1.05
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Vinyl chloride	BDL	0.0012	mg/kg	8260B	10/05/14	1.05
Xylenes, Total	BDL	0.0034	mg/kg	8260B	10/05/14	1.05
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1.05
Dibromofluoromethane	107.		% Rec.	8260B	10/05/14	1.05
4-Bromofluorobenzene	87.8		% Rec.	8260B	10/05/14	1.05

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BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-19

Collected By : JoAnne Ellis
Collection Date : 09/29/14 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.094	0.055	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-19

Collected By : JoAnne Ellis
Collection Date : 09/29/14 10:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0091	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	108.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	89.3		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : JoAnne Ellis
Collection Date : 09/29/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	10/03/14	1
Acrolein	BDL	50.	ug/l	8260B	10/03/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	10/03/14	1
Benzene	BDL	1.0	ug/l	8260B	10/03/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	10/03/14	1
Bromoform	BDL	1.0	ug/l	8260B	10/03/14	1
Bromomethane	BDL	5.0	ug/l	8260B	10/03/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	10/03/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	10/03/14	1
Chloroethane	BDL	5.0	ug/l	8260B	10/03/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	10/03/14	1
Chloroform	BDL	5.0	ug/l	8260B	10/03/14	1
Chloromethane	BDL	2.5	ug/l	8260B	10/03/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	10/03/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	10/03/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	10/03/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	10/03/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	10/03/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	10/03/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	10/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : JoAnne Ellis
Collection Date : 09/29/14 00:00

ESC Sample # : L724975-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	10/03/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	10/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	10/03/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	10/03/14	1
Naphthalene	BDL	5.0	ug/l	8260B	10/03/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Styrene	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	10/03/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
Toluene	BDL	5.0	ug/l	8260B	10/03/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	10/03/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	10/03/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	10/03/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	10/03/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/03/14	1
Dibromofluoromethane	95.4		% Rec.	8260B	10/03/14	1
4-Bromofluorobenzene	104.		% Rec.	8260B	10/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-20

Collected By : JoAnne Ellis
Collection Date : 09/29/14 11:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.8		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	0.085	0.056	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0056	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0056	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0056	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-20

Collected By : JoAnne Ellis
Collection Date : 09/29/14 11:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0056	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0056	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.012	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0056	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	110.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	85.7		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-16

Collected By : JoAnne Ellis
Collection Date : 09/29/14 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.6		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0053	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-16

Collected By : JoAnne Ellis
Collection Date : 09/29/14 12:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0053	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.018	0.0010	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	108.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	84.6		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-15

Collected By : JoAnne Ellis
Collection Date : 09/29/14 13:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.2		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	10/08/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/08/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/08/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/08/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/08/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/08/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/08/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/08/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/08/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/08/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-15

Collected By : JoAnne Ellis
Collection Date : 09/29/14 13:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/08/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/08/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/08/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/08/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/08/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Tetrachloroethene	0.014	0.0011	mg/kg	8260B	10/08/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/08/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/08/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/08/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/08/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/08/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260B	10/08/14	1
Dibromofluoromethane	97.2		% Rec.	8260B	10/08/14	1
4-Bromofluorobenzene	87.4		% Rec.	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-08

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-14

Collected By : JoAnne Ellis
Collection Date : 09/29/14 14:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-08

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-14

Collected By : JoAnne Ellis
Collection Date : 09/29/14 14:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0038	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	112.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	84.7		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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October 08,2014

ESC Sample # : L724975-09

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-8 3.5FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 08:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.0		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-09

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-8 3.5FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 08:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0075	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	108.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	84.8		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-10

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-9 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 09:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.3		%	2540 G-2011	10/03/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-10

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-9 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 09:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0039	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	107.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	90.1		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-11

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-27 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 10:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.3		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-11

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-27 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 10:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0051	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	113.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	89.3		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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October 08,2014

ESC Sample # : L724975-12

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.5		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	0.057	0.055	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-12

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0093	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	108.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	90.3		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-13

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26 8FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.7		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	0.057	0.055	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-13

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26 8FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0089	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	112.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	87.1		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
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October 08,2014

ESC Sample # : L724975-14

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-16 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.5		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0055	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-14

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-16 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 11:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0055	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0037	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	104.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	91.3		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-15

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.3		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-15

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0012	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	107.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	87.8		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-16

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23 8FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.5		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0052	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0052	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0052	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-16

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23 8FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0052	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0022	0.0010	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0052	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	110.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	86.6		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
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Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-17

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-14 3.5FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.8		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-17

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-14 3.5FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	109.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	84.1		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-18

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 14:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.8		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	0.066	0.054	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-18

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24 3FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 14:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0074	0.0011	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	109.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	87.3		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-19

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24 9FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 14:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.4		%	2540 G-2011	10/04/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260B	10/05/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/05/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/05/14	1
Bromomethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Chloroethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	10/05/14	1
Chloroform	BDL	0.0053	mg/kg	8260B	10/05/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/05/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-19

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24 9FT

Collected By : JoAnne Ellis
Collection Date : 09/30/14 14:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/05/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/05/14	1
Naphthalene	BDL	0.0053	mg/kg	8260B	10/05/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Tetrachloroethene	0.0013	0.0010	mg/kg	8260B	10/05/14	1
Toluene	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/05/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/05/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	106.		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	89.5		% Rec.	8260B	10/05/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
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October 08,2014

ESC Sample # : L724975-20

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP

Collected By : JoAnne Ellis
Collection Date : 09/30/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	10/03/14	1
Acrolein	BDL	50.	ug/l	8260B	10/03/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	10/03/14	1
Benzene	BDL	1.0	ug/l	8260B	10/03/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	10/03/14	1
Bromoform	BDL	1.0	ug/l	8260B	10/03/14	1
Bromomethane	BDL	5.0	ug/l	8260B	10/03/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	10/03/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	10/03/14	1
Chloroethane	BDL	5.0	ug/l	8260B	10/03/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	10/03/14	1
Chloroform	BDL	5.0	ug/l	8260B	10/03/14	1
Chloromethane	BDL	2.5	ug/l	8260B	10/03/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	10/03/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	10/03/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	10/03/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	10/03/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/03/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/03/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	10/03/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	10/03/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	10/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 08,2014

ESC Sample # : L724975-20

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 01, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP

Collected By : JoAnne Ellis
Collection Date : 09/30/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	10/03/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	10/03/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	10/03/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	10/03/14	1
Naphthalene	BDL	5.0	ug/l	8260B	10/03/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Styrene	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	10/03/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
Toluene	BDL	5.0	ug/l	8260B	10/03/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	10/03/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	10/03/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	10/03/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	10/03/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/03/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	10/03/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	10/03/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260B	10/03/14	1
Dibromofluoromethane	99.6		% Rec.	8260B	10/03/14	1
4-Bromofluorobenzene	106.		% Rec.	8260B	10/03/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.
This report shall not be reproduced, except in full, without the written approval from ESC.
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Reported: 10/08/14 16:04 Printed: 10/08/14 16:06

Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L724975-01	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-02	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-03	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-04	WG746251	SAMP	2,2-Dichloropropane	R2995194	J3
	WG746251	SAMP	2-Butanone (MEK)	R2995194	J3
	WG746251	SAMP	Tetrachloroethene	R2995194	J3
L724975-05	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-06	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-08	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-09	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-10	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-11	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-12	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-13	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-14	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-15	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-16	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-17	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-18	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-19	WG746295	SAMP	1,2,3-Trichlorobenzene	R2995835	J4
L724975-20	WG746251	SAMP	2,2-Dichloropropane	R2995194	J3
	WG746251	SAMP	2-Butanone (MEK)	R2995194	J3
	WG746251	SAMP	Tetrachloroethene	R2995194	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/08/14 at 16:06:09

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L724975-01 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-02 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-03 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-04 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-05 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-06 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-07 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-08 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-09 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-10 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-11 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-12 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-13 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-14 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-15 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-16 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-17 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-18 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-19 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

Sample: L724975-20 Account: PESENVSWA Received: 10/01/14 09:00 Due Date: 10/08/14 00:00 RPT Date: 10/08/14 16:04

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Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG746475	10/03/14 07:41
Total Solids	< .1	%			WG746591	10/04/14 09:33
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1,1-Trichloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1,2-Trichloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1-Dichloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,1-Dichloroethene	< .001	mg/l			WG746251	10/03/14 22:47
1,1-Dichloropropene	< .001	mg/l			WG746251	10/03/14 22:47
1,2,3-Trichlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,2,3-Trichloropropane	< .001	mg/l			WG746251	10/03/14 22:47
1,2,3-Trimethylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,2,4-Trichlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,2,4-Trimethylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG746251	10/03/14 22:47
1,2-Dibromoethane	< .001	mg/l			WG746251	10/03/14 22:47
1,2-Dichlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,2-Dichloroethane	< .001	mg/l			WG746251	10/03/14 22:47
1,2-Dichloropropane	< .001	mg/l			WG746251	10/03/14 22:47
1,3,5-Trimethylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,3-Dichlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
1,3-Dichloropropane	< .001	mg/l			WG746251	10/03/14 22:47
1,4-Dichlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
2,2-Dichloropropane	< .001	mg/l			WG746251	10/03/14 22:47
2-Butanone (MEK)	< .01	mg/l			WG746251	10/03/14 22:47
2-Chloroethyl vinyl ether	< .05	mg/l			WG746251	10/03/14 22:47
2-Chlorotoluene	< .001	mg/l			WG746251	10/03/14 22:47
4-Chlorotoluene	< .001	mg/l			WG746251	10/03/14 22:47
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG746251	10/03/14 22:47
Acetone	< .05	mg/l			WG746251	10/03/14 22:47
Acrolein	< .025	mg/l			WG746251	10/03/14 22:47
Acrylonitrile	< .01	mg/l			WG746251	10/03/14 22:47
Benzene	< .001	mg/l			WG746251	10/03/14 22:47
Bromobenzene	< .001	mg/l			WG746251	10/03/14 22:47
Bromodichloromethane	< .001	mg/l			WG746251	10/03/14 22:47
Bromoform	< .001	mg/l			WG746251	10/03/14 22:47
Bromomethane	< .005	mg/l			WG746251	10/03/14 22:47
Carbon tetrachloride	< .001	mg/l			WG746251	10/03/14 22:47
Chlorobenzene	< .001	mg/l			WG746251	10/03/14 22:47
Chlorodibromomethane	< .001	mg/l			WG746251	10/03/14 22:47
Chloroethane	< .005	mg/l			WG746251	10/03/14 22:47
Chloroform	< .005	mg/l			WG746251	10/03/14 22:47
Chloromethane	< .0025	mg/l			WG746251	10/03/14 22:47
cis-1,2-Dichloroethene	< .001	mg/l			WG746251	10/03/14 22:47
cis-1,3-Dichloropropene	< .001	mg/l			WG746251	10/03/14 22:47
Di-isopropyl ether	< .001	mg/l			WG746251	10/03/14 22:47
Dibromomethane	< .001	mg/l			WG746251	10/03/14 22:47
Dichlorodifluoromethane	< .005	mg/l			WG746251	10/03/14 22:47
Ethylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
Hexachloro-1,3-butadiene	< .001	mg/l			WG746251	10/03/14 22:47
Isopropylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
Methyl tert-butyl ether	< .001	mg/l			WG746251	10/03/14 22:47
Methylene Chloride	< .005	mg/l			WG746251	10/03/14 22:47
n-Butylbenzene	< .001	mg/l			WG746251	10/03/14 22:47

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
n-Propylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
Naphthalene	< .005	mg/l			WG746251	10/03/14 22:47
p-Isopropyltoluene	< .001	mg/l			WG746251	10/03/14 22:47
sec-Butylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
Styrene	< .001	mg/l			WG746251	10/03/14 22:47
tert-Butylbenzene	< .001	mg/l			WG746251	10/03/14 22:47
Tetrachloroethene	< .001	mg/l			WG746251	10/03/14 22:47
Toluene	< .005	mg/l			WG746251	10/03/14 22:47
trans-1,2-Dichloroethene	< .001	mg/l			WG746251	10/03/14 22:47
trans-1,3-Dichloropropene	< .001	mg/l			WG746251	10/03/14 22:47
Trichloroethene	< .001	mg/l			WG746251	10/03/14 22:47
Trichlorofluoromethane	< .005	mg/l			WG746251	10/03/14 22:47
Vinyl chloride	< .001	mg/l			WG746251	10/03/14 22:47
Xylenes, Total	< .003	mg/l			WG746251	10/03/14 22:47
4-Bromofluorobenzene		% Rec.	108.0	71-126	WG746251	10/03/14 22:47
Dibromofluoromethane		% Rec.	93.20	78.3-121	WG746251	10/03/14 22:47
Toluene-d8		% Rec.	104.0	88.5-111	WG746251	10/03/14 22:47
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1,1-Trichloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1,2-Trichloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1-Dichloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,1-Dichloroethene	< .001	mg/kg			WG746295	10/05/14 14:29
1,1-Dichloropropene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2,3-Trichloropropane	< .0025	mg/kg			WG746295	10/05/14 14:29
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746295	10/05/14 14:29
1,2-Dibromoethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,2-Dichlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,2-Dichloroethane	< .001	mg/kg			WG746295	10/05/14 14:29
1,2-Dichloropropane	< .001	mg/kg			WG746295	10/05/14 14:29
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,3-Dichlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
1,3-Dichloropropane	< .001	mg/kg			WG746295	10/05/14 14:29
1,4-Dichlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
2,2-Dichloropropane	< .001	mg/kg			WG746295	10/05/14 14:29
2-Butanone (MEK)	< .01	mg/kg			WG746295	10/05/14 14:29
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746295	10/05/14 14:29
2-Chlorotoluene	< .001	mg/kg			WG746295	10/05/14 14:29
4-Chlorotoluene	< .001	mg/kg			WG746295	10/05/14 14:29
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746295	10/05/14 14:29
Acetone	< .05	mg/kg			WG746295	10/05/14 14:29
Acrylonitrile	< .01	mg/kg			WG746295	10/05/14 14:29
Benzene	< .001	mg/kg			WG746295	10/05/14 14:29
Bromobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Bromodichloromethane	< .001	mg/kg			WG746295	10/05/14 14:29
Bromoform	< .001	mg/kg			WG746295	10/05/14 14:29
Bromomethane	< .005	mg/kg			WG746295	10/05/14 14:29
Carbon tetrachloride	< .001	mg/kg			WG746295	10/05/14 14:29
Chlorobenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Chlorodibromomethane	< .001	mg/kg			WG746295	10/05/14 14:29
Chloroethane	< .005	mg/kg			WG746295	10/05/14 14:29
Chloroform	< .005	mg/kg			WG746295	10/05/14 14:29

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chloromethane	< .0025	mg/kg			WG746295	10/05/14 14:29
cis-1,2-Dichloroethene	< .001	mg/kg			WG746295	10/05/14 14:29
cis-1,3-Dichloropropene	< .001	mg/kg			WG746295	10/05/14 14:29
Di-isopropyl ether	< .001	mg/kg			WG746295	10/05/14 14:29
Dibromomethane	< .001	mg/kg			WG746295	10/05/14 14:29
Dichlorodifluoromethane	< .005	mg/kg			WG746295	10/05/14 14:29
Ethylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746295	10/05/14 14:29
Isopropylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Methyl tert-butyl ether	< .001	mg/kg			WG746295	10/05/14 14:29
Methylene Chloride	< .005	mg/kg			WG746295	10/05/14 14:29
n-Butylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
n-Propylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Naphthalene	< .005	mg/kg			WG746295	10/05/14 14:29
p-Isopropyltoluene	< .001	mg/kg			WG746295	10/05/14 14:29
sec-Butylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Styrene	< .001	mg/kg			WG746295	10/05/14 14:29
tert-Butylbenzene	< .001	mg/kg			WG746295	10/05/14 14:29
Tetrachloroethene	< .001	mg/kg			WG746295	10/05/14 14:29
Toluene	< .005	mg/kg			WG746295	10/05/14 14:29
trans-1,2-Dichloroethene	< .001	mg/kg			WG746295	10/05/14 14:29
trans-1,3-Dichloropropene	< .001	mg/kg			WG746295	10/05/14 14:29
Trichloroethene	< .001	mg/kg			WG746295	10/05/14 14:29
Trichlorofluoromethane	< .005	mg/kg			WG746295	10/05/14 14:29
Vinyl chloride	< .001	mg/kg			WG746295	10/05/14 14:29
Xylenes, Total	< .003	mg/kg			WG746295	10/05/14 14:29
4-Bromofluorobenzene		% Rec.	87.90	71-126	WG746295	10/05/14 14:29
Dibromofluoromethane		% Rec.	97.80	78.3-121	WG746295	10/05/14 14:29
Toluene-d8		% Rec.	104.0	88.5-111	WG746295	10/05/14 14:29
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1,1-Trichloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1,2-Trichloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1-Dichloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,1-Dichloroethene	< .001	mg/kg			WG747318	10/08/14 11:52
1,1-Dichloropropene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2,3-Trichlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2,3-Trichloropropane	< .0025	mg/kg			WG747318	10/08/14 11:52
1,2,3-Trimethylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2,4-Trichlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2,4-Trimethylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG747318	10/08/14 11:52
1,2-Dibromoethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,2-Dichlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,2-Dichloroethane	< .001	mg/kg			WG747318	10/08/14 11:52
1,2-Dichloropropane	< .001	mg/kg			WG747318	10/08/14 11:52
1,3,5-Trimethylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,3-Dichlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
1,3-Dichloropropane	< .001	mg/kg			WG747318	10/08/14 11:52
1,4-Dichlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
2,2-Dichloropropane	< .001	mg/kg			WG747318	10/08/14 11:52
2-Butanone (MEK)	< .01	mg/kg			WG747318	10/08/14 11:52
2-Chloroethyl vinyl ether	< .05	mg/kg			WG747318	10/08/14 11:52
2-Chlorotoluene	< .001	mg/kg			WG747318	10/08/14 11:52
4-Chlorotoluene	< .001	mg/kg			WG747318	10/08/14 11:52
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG747318	10/08/14 11:52

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L724975

October 08, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Acetone	< .05	mg/kg			WG747318	10/08/14 11:52
Acrylonitrile	< .01	mg/kg			WG747318	10/08/14 11:52
Benzene	< .001	mg/kg			WG747318	10/08/14 11:52
Bromobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Bromodichloromethane	< .001	mg/kg			WG747318	10/08/14 11:52
Bromoform	< .001	mg/kg			WG747318	10/08/14 11:52
Bromomethane	< .005	mg/kg			WG747318	10/08/14 11:52
Carbon tetrachloride	< .001	mg/kg			WG747318	10/08/14 11:52
Chlorobenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Chlorodibromomethane	< .001	mg/kg			WG747318	10/08/14 11:52
Chloroethane	< .005	mg/kg			WG747318	10/08/14 11:52
Chloroform	< .005	mg/kg			WG747318	10/08/14 11:52
Chloromethane	< .0025	mg/kg			WG747318	10/08/14 11:52
cis-1,2-Dichloroethene	< .001	mg/kg			WG747318	10/08/14 11:52
cis-1,3-Dichloropropene	< .001	mg/kg			WG747318	10/08/14 11:52
Di-isopropyl ether	< .001	mg/kg			WG747318	10/08/14 11:52
Dibromomethane	< .001	mg/kg			WG747318	10/08/14 11:52
Dichlorodifluoromethane	< .005	mg/kg			WG747318	10/08/14 11:52
Ethylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Hexachloro-1,3-butadiene	< .001	mg/kg			WG747318	10/08/14 11:52
Isopropylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Methyl tert-butyl ether	< .001	mg/kg			WG747318	10/08/14 11:52
Methylene Chloride	< .005	mg/kg			WG747318	10/08/14 11:52
n-Butylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
n-Propylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Naphthalene	< .005	mg/kg			WG747318	10/08/14 11:52
p-Isopropyltoluene	< .001	mg/kg			WG747318	10/08/14 11:52
sec-Butylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Styrene	< .001	mg/kg			WG747318	10/08/14 11:52
tert-Butylbenzene	< .001	mg/kg			WG747318	10/08/14 11:52
Tetrachloroethene	< .001	mg/kg			WG747318	10/08/14 11:52
Toluene	< .005	mg/kg			WG747318	10/08/14 11:52
trans-1,2-Dichloroethene	< .001	mg/kg			WG747318	10/08/14 11:52
trans-1,3-Dichloropropene	< .001	mg/kg			WG747318	10/08/14 11:52
Trichloroethene	< .001	mg/kg			WG747318	10/08/14 11:52
Trichlorofluoromethane	< .005	mg/kg			WG747318	10/08/14 11:52
Vinyl chloride	< .001	mg/kg			WG747318	10/08/14 11:52
Xylenes, Total	< .003	mg/kg			WG747318	10/08/14 11:52
4-Bromofluorobenzene		% Rec.	87.10	71-126	WG747318	10/08/14 11:52
Dibromofluoromethane		% Rec.	95.30	78.3-121	WG747318	10/08/14 11:52
Toluene-d8		% Rec.	98.60	88.5-111	WG747318	10/08/14 11:52

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	80.2	82.0	2.26	5	L725094-11	WG746475
Total Solids	%	93.3	93.7	0.494	5	L724956-05	WG746591

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG746475
Total Solids	%	50	50.0	100.	85-115	WG746591

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Level II

L724975

October 08, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0238	95.4	74.2-124	WG746251
1,1,1-Trichloroethane	mg/l	.025	0.0240	96.0	73.2-123	WG746251
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0250	99.8	70.7-122	WG746251
1,1,2-Trichloroethane	mg/l	.025	0.0248	99.3	77.7-118	WG746251
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0245	98.0	67.2-143	WG746251
1,1-Dichloroethane	mg/l	.025	0.0258	103.	70.7-126	WG746251
1,1-Dichloroethene	mg/l	.025	0.0247	99.0	67.8-129	WG746251
1,1-Dichloropropene	mg/l	.025	0.0253	101.	73.1-125	WG746251
1,2,3-Trichlorobenzene	mg/l	.025	0.0259	104.	64.9-135	WG746251
1,2,3-Trichloropropane	mg/l	.025	0.0236	94.5	71.8-121	WG746251
1,2,3-Trimethylbenzene	mg/l	.025	0.0244	97.7	72.3-116	WG746251
1,2,4-Trichlorobenzene	mg/l	.025	0.0258	103.	69.7-136	WG746251
1,2,4-Trimethylbenzene	mg/l	.025	0.0238	95.1	75-123	WG746251
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0255	102.	65.4-128	WG746251
1,2-Dibromoethane	mg/l	.025	0.0250	99.8	76.6-121	WG746251
1,2-Dichlorobenzene	mg/l	.025	0.0244	97.4	78.4-117	WG746251
1,2-Dichloroethane	mg/l	.025	0.0237	95.0	68.8-124	WG746251
1,2-Dichloropropane	mg/l	.025	0.0263	105.	76.5-119	WG746251
1,3,5-Trimethylbenzene	mg/l	.025	0.0239	95.5	75.6-124	WG746251
1,3-Dichlorobenzene	mg/l	.025	0.0232	92.6	70.8-128	WG746251
1,3-Dichloropropane	mg/l	.025	0.0237	94.9	77.4-117	WG746251
1,4-Dichlorobenzene	mg/l	.025	0.0237	94.7	78.8-115	WG746251
2,2-Dichloropropane	mg/l	.025	0.0222	88.7	62.4-133	WG746251
2-Butanone (MEK)	mg/l	.125	0.127	102.	55-149	WG746251
2-Chloroethyl vinyl ether	mg/l	.125	0.135	108.	43.8-150	WG746251
2-Chlorotoluene	mg/l	.025	0.0226	90.3	74.7-122	WG746251
4-Chlorotoluene	mg/l	.025	0.0234	93.4	77.5-120	WG746251
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.132	105.	70.5-133	WG746251
Acetone	mg/l	.125	0.135	108.	35.6-163	WG746251
Acrolein	mg/l	.125	0.198	158.	10-190	WG746251
Acrylonitrile	mg/l	.125	0.139	111.	55.2-130	WG746251
Benzene	mg/l	.025	0.0248	99.0	74.8-121	WG746251
Bromobenzene	mg/l	.025	0.0233	93.0	77.5-116	WG746251
Bromodichloromethane	mg/l	.025	0.0248	99.4	75.1-116	WG746251
Bromoform	mg/l	.025	0.0244	97.7	67.5-130	WG746251
Bromomethane	mg/l	.025	0.0205	82.0	49.9-162	WG746251
Carbon tetrachloride	mg/l	.025	0.0237	94.9	70.2-123	WG746251
Chlorobenzene	mg/l	.025	0.0231	92.3	78.1-119	WG746251
Chlorodibromomethane	mg/l	.025	0.0248	99.0	74-121	WG746251
Chloroethane	mg/l	.025	0.0200	79.9	61.7-135	WG746251
Chloroform	mg/l	.025	0.0245	98.2	76-121	WG746251
Chloromethane	mg/l	.025	0.0246	98.3	61.5-129	WG746251
cis-1,2-Dichloroethene	mg/l	.025	0.0253	101.	76-119	WG746251
cis-1,3-Dichloropropene	mg/l	.025	0.0260	104.	78.2-120	WG746251
Di-isopropyl ether	mg/l	.025	0.0267	107.	65.6-132	WG746251
Dibromomethane	mg/l	.025	0.0253	101.	79.5-118	WG746251
Dichlorodifluoromethane	mg/l	.025	0.0205	81.9	54.8-135	WG746251
Ethylbenzene	mg/l	.025	0.0239	95.6	78.8-122	WG746251
Hexachloro-1,3-butadiene	mg/l	.025	0.0253	101.	64.7-129	WG746251
Isopropylbenzene	mg/l	.025	0.0241	96.5	78.6-132	WG746251
Methyl tert-butyl ether	mg/l	.025	0.0245	98.2	71.2-126	WG746251
Methylene Chloride	mg/l	.025	0.0242	96.8	70.3-120	WG746251
n-Butylbenzene	mg/l	.025	0.0250	99.8	76.2-126	WG746251
n-Propylbenzene	mg/l	.025	0.0238	95.2	78.2-122	WG746251
Naphthalene	mg/l	.025	0.0261	105.	68.4-128	WG746251
p-Isopropyltoluene	mg/l	.025	0.0235	94.0	74-131	WG746251
sec-Butylbenzene	mg/l	.025	0.0242	96.7	74.4-127	WG746251
Styrene	mg/l	.025	0.0243	97.3	80.4-126	WG746251
tert-Butylbenzene	mg/l	.025	0.0243	97.1	75.3-126	WG746251

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October 08, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Tetrachloroethene	mg/l	.025	0.0235	93.8	72.6-126	WG746251
Toluene	mg/l	.025	0.0241	96.6	79.7-116	WG746251
trans-1,2-Dichloroethene	mg/l	.025	0.0255	102.	72.6-121	WG746251
trans-1,3-Dichloropropene	mg/l	.025	0.0246	98.5	74.3-123	WG746251
Trichloroethene	mg/l	.025	0.0257	103.	77.7-118	WG746251
Trichlorofluoromethane	mg/l	.025	0.0227	90.9	63.5-135	WG746251
Vinyl chloride	mg/l	.025	0.0221	88.5	65.9-128	WG746251
Xylenes, Total	mg/l	.075	0.0720	96.0	78.7-121	WG746251
4-Bromofluorobenzene				99.90	71-126	WG746251
Dibromofluoromethane				100.0	78.3-121	WG746251
Toluene-d8				101.0	88.5-111	WG746251
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0274	109.	72.9-124	WG746295
1,1,1-Trichloroethane	mg/kg	.025	0.0259	104.	73.7-124	WG746295
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0253	101.	69.4-122	WG746295
1,1,2-Trichloroethane	mg/kg	.025	0.0243	97.1	79.1-118	WG746295
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0238	95.2	70-146	WG746295
1,1-Dichloroethane	mg/kg	.025	0.0243	97.2	75-124	WG746295
1,1-Dichloroethene	mg/kg	.025	0.0217	86.8	70.4-129	WG746295
1,1-Dichloropropene	mg/kg	.025	0.0237	95.0	74.9-124	WG746295
1,2,3-Trichlorobenzene	mg/kg	.025	0.0338	135.*	69.3-131	WG746295
1,2,3-Trichloropropane	mg/kg	.025	0.0252	101.	71.4-123	WG746295
1,2,3-Trimethylbenzene	mg/kg	.025	0.0258	103.	73.6-113	WG746295
1,2,4-Trichlorobenzene	mg/kg	.025	0.0287	115.	71.9-137	WG746295
1,2,4-Trimethylbenzene	mg/kg	.025	0.0248	99.1	75.5-122	WG746295
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0245	98.2	62.8-133	WG746295
1,2-Dibromoethane	mg/kg	.025	0.0233	93.3	78.6-120	WG746295
1,2-Dichlorobenzene	mg/kg	.025	0.0258	103.	78.3-118	WG746295
1,2-Dichloroethane	mg/kg	.025	0.0254	101.	70.1-124	WG746295
1,2-Dichloropropane	mg/kg	.025	0.0265	106.	77.9-119	WG746295
1,3,5-Trimethylbenzene	mg/kg	.025	0.0247	99.0	75.9-124	WG746295
1,3-Dichlorobenzene	mg/kg	.025	0.0244	97.6	72-126	WG746295
1,3-Dichloropropane	mg/kg	.025	0.0246	98.5	79.1-117	WG746295
1,4-Dichlorobenzene	mg/kg	.025	0.0238	95.3	78.3-117	WG746295
2,2-Dichloropropane	mg/kg	.025	0.0260	104.	61.3-136	WG746295
2-Butanone (MEK)	mg/kg	.125	0.112	89.9	53.7-153	WG746295
2-Chloroethyl vinyl ether	mg/kg	.125	0.121	96.5	37.7-157	WG746295
2-Chlorotoluene	mg/kg	.025	0.0247	98.6	75.6-121	WG746295
4-Chlorotoluene	mg/kg	.025	0.0251	100.	77.3-120	WG746295
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.127	102.	70.4-137	WG746295
Acetone	mg/kg	.125	0.110	88.0	35.1-175	WG746295
Acrylonitrile	mg/kg	.125	0.125	99.8	56.4-128	WG746295
Benzene	mg/kg	.025	0.0241	96.6	77.1-121	WG746295
Bromobenzene	mg/kg	.025	0.0248	99.2	78.2-115	WG746295
Bromodichloromethane	mg/kg	.025	0.0270	108.	74.9-115	WG746295
Bromoform	mg/kg	.025	0.0286	114.	65.9-132	WG746295
Bromomethane	mg/kg	.025	0.0264	106.	48.7-165	WG746295
Carbon tetrachloride	mg/kg	.025	0.0268	107.	70-124	WG746295
Chlorobenzene	mg/kg	.025	0.0239	95.6	79.1-119	WG746295
Chlorodibromomethane	mg/kg	.025	0.0260	104.	73.5-121	WG746295
Chloroethane	mg/kg	.025	0.0275	110.	66.2-132	WG746295
Chloroform	mg/kg	.025	0.0253	101.	76.7-122	WG746295
Chloromethane	mg/kg	.025	0.0260	104.	63.4-131	WG746295
cis-1,2-Dichloroethene	mg/kg	.025	0.0244	97.6	78.2-119	WG746295
cis-1,3-Dichloropropene	mg/kg	.025	0.0264	106.	79.6-120	WG746295
Di-isopropyl ether	mg/kg	.025	0.0257	103.	70.4-133	WG746295
Dibromomethane	mg/kg	.025	0.0269	108.	79.4-120	WG746295
Dichlorodifluoromethane	mg/kg	.025	0.0248	99.2	57.1-137	WG746295

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PES Environmental, Inc.- WA
Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Ethylbenzene	mg/kg	.025	0.0239	95.4	79.7-122	WG746295
Hexachloro-1,3-butadiene	mg/kg	.025	0.0293	117.	68.2-123	WG746295
Isopropylbenzene	mg/kg	.025	0.0244	97.7	80-135	WG746295
Methyl tert-butyl ether	mg/kg	.025	0.0247	98.6	73-129	WG746295
Methylene Chloride	mg/kg	.025	0.0220	88.0	72.6-120	WG746295
n-Butylbenzene	mg/kg	.025	0.0270	108.	77.5-126	WG746295
n-Propylbenzene	mg/kg	.025	0.0246	98.2	77.9-123	WG746295
Naphthalene	mg/kg	.025	0.0283	113.	69.8-128	WG746295
p-Isopropyltoluene	mg/kg	.025	0.0254	102.	75.8-129	WG746295
sec-Butylbenzene	mg/kg	.025	0.0253	101.	75.8-126	WG746295
Styrene	mg/kg	.025	0.0248	99.3	82.4-126	WG746295
tert-Butylbenzene	mg/kg	.025	0.0250	100.	76.4-126	WG746295
Tetrachloroethene	mg/kg	.025	0.0243	97.3	73.9-125	WG746295
Toluene	mg/kg	.025	0.0252	101.	79.7-118	WG746295
trans-1,2-Dichloroethene	mg/kg	.025	0.0239	95.6	73.8-122	WG746295
trans-1,3-Dichloropropene	mg/kg	.025	0.0267	107.	75.9-124	WG746295
Trichloroethene	mg/kg	.025	0.0255	102.	77.9-118	WG746295
Trichlorofluoromethane	mg/kg	.025	0.0278	111.	67.7-131	WG746295
Vinyl chloride	mg/kg	.025	0.0258	103.	66.7-130	WG746295
Xylenes, Total	mg/kg	.075	0.0701	93.5	78.8-121	WG746295
4-Bromofluorobenzene				98.00	71-126	WG746295
Dibromofluoromethane				95.80	78.3-121	WG746295
Toluene-d8				106.0	88.5-111	WG746295
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0260	104.	72.9-124	WG747318
1,1,1-Trichloroethane	mg/kg	.025	0.0238	95.3	73.7-124	WG747318
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0275	110.	69.4-122	WG747318
1,1,2-Trichloroethane	mg/kg	.025	0.0259	103.	79.1-118	WG747318
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0258	103.	70-146	WG747318
1,1-Dichloroethane	mg/kg	.025	0.0250	100.	75-124	WG747318
1,1-Dichloroethene	mg/kg	.025	0.0228	91.3	70.4-129	WG747318
1,1-Dichloropropene	mg/kg	.025	0.0243	97.1	74.9-124	WG747318
1,2,3-Trichlorobenzene	mg/kg	.025	0.0262	105.	69.3-131	WG747318
1,2,3-Trichloropropane	mg/kg	.025	0.0270	108.	71.4-123	WG747318
1,2,3-Trimethylbenzene	mg/kg	.025	0.0243	97.2	73.6-113	WG747318
1,2,4-Trichlorobenzene	mg/kg	.025	0.0274	110.	71.9-137	WG747318
1,2,4-Trimethylbenzene	mg/kg	.025	0.0263	105.	75.5-122	WG747318
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0258	103.	62.8-133	WG747318
1,2-Dibromoethane	mg/kg	.025	0.0254	102.	78.6-120	WG747318
1,2-Dichlorobenzene	mg/kg	.025	0.0254	102.	78.3-118	WG747318
1,2-Dichloroethane	mg/kg	.025	0.0219	87.7	70.1-124	WG747318
1,2-Dichloropropane	mg/kg	.025	0.0278	111.	77.9-119	WG747318
1,3,5-Trimethylbenzene	mg/kg	.025	0.0264	106.	75.9-124	WG747318
1,3-Dichlorobenzene	mg/kg	.025	0.0278	111.	72-126	WG747318
1,3-Dichloropropane	mg/kg	.025	0.0251	100.	79.1-117	WG747318
1,4-Dichlorobenzene	mg/kg	.025	0.0266	107.	78.3-117	WG747318
2,2-Dichloropropane	mg/kg	.025	0.0244	97.8	61.3-136	WG747318
2-Butanone (MEK)	mg/kg	.125	0.131	105.	53.7-153	WG747318
2-Chloroethyl vinyl ether	mg/kg	.125	0.137	110.	37.7-157	WG747318
2-Chlorotoluene	mg/kg	.025	0.0256	102.	75.6-121	WG747318
4-Chlorotoluene	mg/kg	.025	0.0265	106.	77.3-120	WG747318
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.141	112.	70.4-137	WG747318
Acetone	mg/kg	.125	0.135	108.	35.1-175	WG747318
Acrylonitrile	mg/kg	.125	0.146	117.	56.4-128	WG747318
Benzene	mg/kg	.025	0.0259	104.	77.1-121	WG747318
Bromobenzene	mg/kg	.025	0.0247	98.8	78.2-115	WG747318
Bromodichloromethane	mg/kg	.025	0.0238	95.3	74.9-115	WG747318
Bromoform	mg/kg	.025	0.0285	114.	65.9-132	WG747318

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Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Bromomethane	mg/kg	.025	0.0309	124.	48.7-165	WG747318
Carbon tetrachloride	mg/kg	.025	0.0248	99.3	70-124	WG747318
Chlorobenzene	mg/kg	.025	0.0264	106.	79.1-119	WG747318
Chlorodibromomethane	mg/kg	.025	0.0257	103.	73.5-121	WG747318
Chloroethane	mg/kg	.025	0.0265	106.	66.2-132	WG747318
Chloroform	mg/kg	.025	0.0233	93.1	76.7-122	WG747318
Chloromethane	mg/kg	.025	0.0288	115.	63.4-131	WG747318
cis-1,2-Dichloroethene	mg/kg	.025	0.0256	103.	78.2-119	WG747318
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	79.6-120	WG747318
Di-isopropyl ether	mg/kg	.025	0.0254	102.	70.4-133	WG747318
Dibromomethane	mg/kg	.025	0.0253	101.	79.4-120	WG747318
Dichlorodifluoromethane	mg/kg	.025	0.0239	95.5	57.1-137	WG747318
Ethylbenzene	mg/kg	.025	0.0262	105.	79.7-122	WG747318
Hexachloro-1,3-butadiene	mg/kg	.025	0.0267	107.	68.2-123	WG747318
Isopropylbenzene	mg/kg	.025	0.0259	104.	80-135	WG747318
Methyl tert-butyl ether	mg/kg	.025	0.0242	96.6	73-129	WG747318
Methylene Chloride	mg/kg	.025	0.0241	96.4	72.6-120	WG747318
n-Butylbenzene	mg/kg	.025	0.0267	107.	77.5-126	WG747318
n-Propylbenzene	mg/kg	.025	0.0262	105.	77.9-123	WG747318
Naphthalene	mg/kg	.025	0.0252	101.	69.8-128	WG747318
p-Isopropyltoluene	mg/kg	.025	0.0273	109.	75.8-129	WG747318
sec-Butylbenzene	mg/kg	.025	0.0259	104.	75.8-126	WG747318
Styrene	mg/kg	.025	0.0271	108.	82.4-126	WG747318
tert-Butylbenzene	mg/kg	.025	0.0257	103.	76.4-126	WG747318
Tetrachloroethene	mg/kg	.025	0.0289	116.	73.9-125	WG747318
Toluene	mg/kg	.025	0.0270	108.	79.7-118	WG747318
trans-1,2-Dichloroethene	mg/kg	.025	0.0248	99.2	73.8-122	WG747318
trans-1,3-Dichloropropene	mg/kg	.025	0.0282	113.	75.9-124	WG747318
Trichloroethene	mg/kg	.025	0.0265	106.	77.9-118	WG747318
Trichlorofluoromethane	mg/kg	.025	0.0233	93.1	67.7-131	WG747318
Vinyl chloride	mg/kg	.025	0.0272	109.	66.7-130	WG747318
Xylenes, Total	mg/kg	.075	0.0803	107.	78.8-121	WG747318
4-Bromofluorobenzene				92.30	71-126	WG747318
Dibromofluoromethane				92.30	78.3-121	WG747318
Toluene-d8				101.0	88.5-111	WG747318

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0256	0.0238	102.	74.2-124	7.23	20	WG746251
1,1,1-Trichloroethane	mg/l	0.0274	0.0240	110.	73.2-123	13.3	20	WG746251
1,1,2,2-Tetrachloroethane	mg/l	0.0230	0.0250	92.0	70.7-122	8.24	20	WG746251
1,1,2-Trichloroethane	mg/l	0.0247	0.0248	99.0	77.7-118	0.560	20	WG746251
1,1,2-Trichlorotrifluoroethane	mg/l	0.0282	0.0245	113.	67.2-143	14.2	20	WG746251
1,1-Dichloroethane	mg/l	0.0270	0.0258	108.	70.7-126	4.58	20	WG746251
1,1-Dichloroethene	mg/l	0.0276	0.0247	110.	67.8-129	11.1	20	WG746251
1,1-Dichloropropene	mg/l	0.0281	0.0253	112.	73.1-125	10.6	20	WG746251
1,2,3-Trichlorobenzene	mg/l	0.0247	0.0259	99.0	64.9-135	4.95	20	WG746251
1,2,3-Trichloropropane	mg/l	0.0217	0.0236	87.0	71.8-121	8.66	20	WG746251
1,2,3-Trimethylbenzene	mg/l	0.0263	0.0244	105.	72.3-116	7.41	20	WG746251
1,2,4-Trichlorobenzene	mg/l	0.0253	0.0258	101.	69.7-136	2.12	20	WG746251
1,2,4-Trimethylbenzene	mg/l	0.0272	0.0238	109.	75-123	13.3	20	WG746251
1,2-Dibromo-3-Chloropropane	mg/l	0.0230	0.0255	92.0	65.4-128	10.2	20	WG746251
1,2-Dibromoethane	mg/l	0.0245	0.0250	98.0	76.6-121	1.81	20	WG746251
1,2-Dichlorobenzene	mg/l	0.0248	0.0244	99.0	78.4-117	1.97	20	WG746251
1,2-Dichloroethane	mg/l	0.0221	0.0237	88.0	68.8-124	7.35	20	WG746251
1,2-Dichloropropane	mg/l	0.0272	0.0263	109.	76.5-119	3.23	20	WG746251
1,3,5-Trimethylbenzene	mg/l	0.0276	0.0239	110.	75.6-124	14.5	20	WG746251
1,3-Dichlorobenzene	mg/l	0.0255	0.0232	102.	70.8-128	9.54	20	WG746251

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Quality Assurance Report
Level II

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October 08, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,3-Dichloropropane	mg/l	0.0240	0.0237	96.0	77.4-117	1.00	20	WG746251
1,4-Dichlorobenzene	mg/l	0.0250	0.0237	100.	78.8-115	5.50	20	WG746251
2,2-Dichloropropane	mg/l	0.0301	0.0222	120.	62.4-133	30.4*	20	WG746251
2-Butanone (MEK)	mg/l	0.103	0.127	82.0	55-149	21.1*	20	WG746251
2-Chloroethyl vinyl ether	mg/l	0.116	0.135	93.0	43.8-150	14.9	20	WG746251
2-Chlorotoluene	mg/l	0.0256	0.0226	102.	74.7-122	12.5	20	WG746251
4-Chlorotoluene	mg/l	0.0266	0.0234	106.	77.5-120	13.1	20	WG746251
4-Methyl-2-pentanone (MIBK)	mg/l	0.116	0.132	93.0	70.5-133	12.2	20	WG746251
Acetone	mg/l	0.109	0.135	87.0	35.6-163	21.2	23.9	WG746251
Acrolein	mg/l	0.171	0.198	137.	10-190	14.7	28.1	WG746251
Acrylonitrile	mg/l	0.114	0.139	92.0	55.2-130	19.2	20	WG746251
Benzene	mg/l	0.0265	0.0248	106.	74.8-121	6.62	20	WG746251
Bromobenzene	mg/l	0.0256	0.0233	102.	77.5-116	9.72	20	WG746251
Bromodichloromethane	mg/l	0.0249	0.0248	100.	75.1-116	0.300	20	WG746251
Bromoform	mg/l	0.0237	0.0244	95.0	67.5-130	2.81	20	WG746251
Bromomethane	mg/l	0.0223	0.0205	89.0	49.9-162	8.39	20	WG746251
Carbon tetrachloride	mg/l	0.0273	0.0237	109.	70.2-123	13.9	20	WG746251
Chlorobenzene	mg/l	0.0264	0.0231	105.	78.1-119	13.3	20	WG746251
Chlorodibromomethane	mg/l	0.0249	0.0248	100.	74-121	0.570	20	WG746251
Chloroethane	mg/l	0.0225	0.0200	90.0	61.7-135	11.8	20	WG746251
Chloroform	mg/l	0.0253	0.0245	101.	76-121	3.02	20	WG746251
Chloromethane	mg/l	0.0271	0.0246	108.	61.5-129	9.76	20	WG746251
cis-1,2-Dichloroethene	mg/l	0.0260	0.0253	104.	76-119	2.48	20	WG746251
cis-1,3-Dichloropropene	mg/l	0.0262	0.0260	105.	78.2-120	0.830	20	WG746251
Di-isopropyl ether	mg/l	0.0264	0.0267	106.	65.6-132	1.03	20	WG746251
Dibromomethane	mg/l	0.0232	0.0253	93.0	79.5-118	8.42	20	WG746251
Dichlorodifluoromethane	mg/l	0.0238	0.0205	95.0	54.8-135	14.8	20	WG746251
Ethylbenzene	mg/l	0.0279	0.0239	112.	78.8-122	15.4	20	WG746251
Hexachloro-1,3-butadiene	mg/l	0.0297	0.0253	119.	64.7-129	16.2	20	WG746251
Isopropylbenzene	mg/l	0.0286	0.0241	114.	78.6-132	16.8	20	WG746251
Methyl tert-butyl ether	mg/l	0.0230	0.0245	92.0	71.2-126	6.37	20	WG746251
Methylene Chloride	mg/l	0.0239	0.0242	96.0	70.3-120	1.11	20	WG746251
n-Butylbenzene	mg/l	0.0291	0.0250	116.	76.2-126	15.4	20	WG746251
n-Propylbenzene	mg/l	0.0284	0.0238	114.	78.2-122	17.6	20	WG746251
Naphthalene	mg/l	0.0231	0.0261	92.0	68.4-128	12.4	20	WG746251
p-Isopropyltoluene	mg/l	0.0286	0.0235	114.	74-131	19.4	20	WG746251
sec-Butylbenzene	mg/l	0.0293	0.0242	117.	74.4-127	19.3	20	WG746251
Styrene	mg/l	0.0270	0.0243	108.	80.4-126	10.4	20	WG746251
tert-Butylbenzene	mg/l	0.0288	0.0243	115.	75.3-126	17.0	20	WG746251
Tetrachloroethene	mg/l	0.0289	0.0235	116.	72.6-126	20.7*	20	WG746251
Toluene	mg/l	0.0268	0.0241	107.	79.7-116	10.4	20	WG746251
trans-1,2-Dichloroethene	mg/l	0.0270	0.0255	108.	72.6-121	5.75	20	WG746251
trans-1,3-Dichloropropene	mg/l	0.0249	0.0246	100.	74.3-123	1.10	20	WG746251
Trichloroethene	mg/l	0.0287	0.0257	115.	77.7-118	11.0	20	WG746251
Trichlorofluoromethane	mg/l	0.0267	0.0227	107.	63.5-135	16.0	20	WG746251
Vinyl chloride	mg/l	0.0249	0.0221	100.	65.9-128	11.9	20	WG746251
Xylenes, Total	mg/l	0.0837	0.0720	112.	78.7-121	15.1	20	WG746251
4-Bromofluorobenzene				105.0	71-126			WG746251
Dibromofluoromethane				92.80	78.3-121			WG746251
Toluene-d8				104.0	88.5-111			WG746251
1,1,1,2-Tetrachloroethane	mg/kg	0.0267	0.0274	107.	72.9-124	2.43	20	WG746295
1,1,1-Trichloroethane	mg/kg	0.0254	0.0259	101.	73.7-124	2.26	20	WG746295
1,1,2,2-Tetrachloroethane	mg/kg	0.0252	0.0253	101.	69.4-122	0.330	20	WG746295
1,1,2-Trichloroethane	mg/kg	0.0242	0.0243	97.0	79.1-118	0.420	20	WG746295
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0229	0.0238	92.0	70-146	3.92	20	WG746295
1,1-Dichloroethane	mg/kg	0.0247	0.0243	99.0	75-124	1.51	20	WG746295
1,1-Dichloroethene	mg/kg	0.0215	0.0217	86.0	70.4-129	1.03	20	WG746295

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,1-Dichloropropene	mg/kg	0.0238	0.0237	95.0	74.9-124	0.260	20	WG746295
1,2,3-Trichlorobenzene	mg/kg	0.0284	0.0338	114.	69.3-131	17.4	20	WG746295
1,2,3-Trichloropropane	mg/kg	0.0254	0.0252	102.	71.4-123	1.08	20	WG746295
1,2,3-Trimethylbenzene	mg/kg	0.0250	0.0258	100.	73.6-113	3.14	20	WG746295
1,2,4-Trichlorobenzene	mg/kg	0.0270	0.0287	108.	71.9-137	5.87	20	WG746295
1,2,4-Trimethylbenzene	mg/kg	0.0244	0.0248	98.0	75.5-122	1.48	20	WG746295
1,2-Dibromo-3-Chloropropane	mg/kg	0.0236	0.0245	94.0	62.8-133	3.74	20	WG746295
1,2-Dibromoethane	mg/kg	0.0252	0.0233	101.	78.6-120	7.49	20	WG746295
1,2-Dichlorobenzene	mg/kg	0.0247	0.0258	99.0	78.3-118	4.31	20	WG746295
1,2-Dichloroethane	mg/kg	0.0270	0.0254	108.	70.1-124	6.04	20	WG746295
1,2-Dichloropropane	mg/kg	0.0267	0.0265	107.	77.9-119	0.600	20	WG746295
1,3,5-Trimethylbenzene	mg/kg	0.0241	0.0247	96.0	75.9-124	2.75	20	WG746295
1,3-Dichlorobenzene	mg/kg	0.0245	0.0244	98.0	72-126	0.350	20	WG746295
1,3-Dichloropropane	mg/kg	0.0250	0.0246	100.	79.1-117	1.52	20	WG746295
1,4-Dichlorobenzene	mg/kg	0.0228	0.0238	91.0	78.3-117	4.27	20	WG746295
2,2-Dichloropropane	mg/kg	0.0276	0.0260	110.	61.3-136	5.94	20	WG746295
2-Butanone (MEK)	mg/kg	0.116	0.112	93.0	53.7-153	3.35	21.2	WG746295
2-Chloroethyl vinyl ether	mg/kg	0.123	0.121	98.0	37.7-157	1.58	20	WG746295
2-Chlorotoluene	mg/kg	0.0245	0.0247	98.0	75.6-121	0.830	20	WG746295
4-Chlorotoluene	mg/kg	0.0248	0.0251	99.0	77.3-120	1.10	20	WG746295
4-Methyl-2-pentanone (MIBK)	mg/kg	0.136	0.127	109.	70.4-137	6.67	20	WG746295
Acetone	mg/kg	0.107	0.110	85.0	35.1-175	3.14	26.1	WG746295
Acrylonitrile	mg/kg	0.132	0.125	105.	56.4-128	5.45	20	WG746295
Benzene	mg/kg	0.0237	0.0241	95.0	77.1-121	1.90	20	WG746295
Bromobenzene	mg/kg	0.0243	0.0248	97.0	78.2-115	1.96	20	WG746295
Bromodichloromethane	mg/kg	0.0270	0.0270	108.	74.9-115	0.0500	20	WG746295
Bromoform	mg/kg	0.0303	0.0286	121.	65.9-132	5.77	20	WG746295
Bromomethane	mg/kg	0.0252	0.0264	101.	48.7-165	4.82	20	WG746295
Carbon tetrachloride	mg/kg	0.0274	0.0268	110.	70-124	2.09	20	WG746295
Chlorobenzene	mg/kg	0.0238	0.0239	95.0	79.1-119	0.600	20	WG746295
Chlorodibromomethane	mg/kg	0.0260	0.0260	104.	73.5-121	0.220	20	WG746295
Chloroethane	mg/kg	0.0269	0.0275	107.	66.2-132	2.23	20	WG746295
Chloroform	mg/kg	0.0252	0.0253	101.	76.7-122	0.520	20	WG746295
Chloromethane	mg/kg	0.0252	0.0260	101.	63.4-131	3.10	20	WG746295
cis-1,2-Dichloroethene	mg/kg	0.0245	0.0244	98.0	78.2-119	0.510	20	WG746295
cis-1,3-Dichloropropene	mg/kg	0.0266	0.0264	106.	79.6-120	0.840	20	WG746295
Di-isopropyl ether	mg/kg	0.0264	0.0257	106.	70.4-133	2.72	20	WG746295
Dibromomethane	mg/kg	0.0260	0.0269	104.	79.4-120	3.62	20	WG746295
Dichlorodifluoromethane	mg/kg	0.0246	0.0248	98.0	57.1-137	0.870	20	WG746295
Ethylbenzene	mg/kg	0.0240	0.0239	96.0	79.7-122	0.380	20	WG746295
Hexachloro-1,3-butadiene	mg/kg	0.0258	0.0293	103.	68.2-123	12.9	20	WG746295
Isopropylbenzene	mg/kg	0.0241	0.0244	96.0	80-135	1.29	20	WG746295
Methyl tert-butyl ether	mg/kg	0.0248	0.0247	99.0	73-129	0.710	20	WG746295
Methylene Chloride	mg/kg	0.0222	0.0220	89.0	72.6-120	0.780	20	WG746295
n-Butylbenzene	mg/kg	0.0262	0.0270	105.	77.5-126	3.02	20	WG746295
n-Propylbenzene	mg/kg	0.0242	0.0246	97.0	77.9-123	1.50	20	WG746295
Naphthalene	mg/kg	0.0247	0.0283	99.0	69.8-128	13.6	20	WG746295
p-Isopropyltoluene	mg/kg	0.0255	0.0254	102.	75.8-129	0.580	20	WG746295
sec-Butylbenzene	mg/kg	0.0249	0.0253	100.	75.8-126	1.65	20	WG746295
Styrene	mg/kg	0.0247	0.0248	99.0	82.4-126	0.670	20	WG746295
tert-Butylbenzene	mg/kg	0.0244	0.0250	98.0	76.4-126	2.48	20	WG746295
Tetrachloroethene	mg/kg	0.0239	0.0243	96.0	73.9-125	1.60	20	WG746295
Toluene	mg/kg	0.0247	0.0252	99.0	79.7-118	2.12	20	WG746295
trans-1,2-Dichloroethene	mg/kg	0.0236	0.0239	94.0	73.8-122	1.12	20	WG746295
trans-1,3-Dichloropropene	mg/kg	0.0266	0.0267	106.	75.9-124	0.290	20	WG746295
Trichloroethene	mg/kg	0.0245	0.0255	98.0	77.9-118	3.90	20	WG746295
Trichlorofluoromethane	mg/kg	0.0272	0.0278	109.	67.7-131	2.02	20	WG746295
Vinyl chloride	mg/kg	0.0242	0.0258	97.0	66.7-130	6.43	20	WG746295
Xylenes, Total	mg/kg	0.0703	0.0701	94.0	78.8-121	0.200	20	WG746295

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Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
4-Bromofluorobenzene				95.40	71-126			
Dibromofluoromethane				102.0	78.3-121			
Toluene-d8				107.0	88.5-111			
1,1,1,2-Tetrachloroethane	mg/kg	0.0252	0.0260	101.	72.9-124	3.11	20	WG747318
1,1,1-Trichloroethane	mg/kg	0.0234	0.0238	93.0	73.7-124	1.97	20	WG747318
1,1,2,2-Tetrachloroethane	mg/kg	0.0298	0.0275	119.	69.4-122	7.85	20	WG747318
1,1,2-Trichloroethane	mg/kg	0.0265	0.0259	106.	79.1-118	2.44	20	WG747318
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0249	0.0258	100.	70-146	3.40	20	WG747318
1,1-Dichloroethane	mg/kg	0.0245	0.0250	98.0	75-124	1.85	20	WG747318
1,1-Dichloroethene	mg/kg	0.0225	0.0228	90.0	70.4-129	1.53	20	WG747318
1,1-Dichloropropene	mg/kg	0.0239	0.0243	96.0	74.9-124	1.37	20	WG747318
1,2,3-Trichlorobenzene	mg/kg	0.0281	0.0262	112.	69.3-131	7.11	20	WG747318
1,2,3-Trichloropropane	mg/kg	0.0295	0.0270	118.	71.4-123	9.07	20	WG747318
1,2,3-Trimethylbenzene	mg/kg	0.0242	0.0243	97.0	73.6-113	0.340	20	WG747318
1,2,4-Trichlorobenzene	mg/kg	0.0276	0.0274	110.	71.9-137	0.660	20	WG747318
1,2,4-Trimethylbenzene	mg/kg	0.0260	0.0263	104.	75.5-122	1.11	20	WG747318
1,2-Dibromo-3-Chloropropane	mg/kg	0.0291	0.0258	116.	62.8-133	12.1	20	WG747318
1,2-Dibromoethane	mg/kg	0.0267	0.0254	107.	78.6-120	5.21	20	WG747318
1,2-Dichlorobenzene	mg/kg	0.0258	0.0254	103.	78.3-118	1.53	20	WG747318
1,2-Dichloroethane	mg/kg	0.0218	0.0219	87.0	70.1-124	0.610	20	WG747318
1,2-Dichloropropane	mg/kg	0.0274	0.0278	110.	77.9-119	1.24	20	WG747318
1,3,5-Trimethylbenzene	mg/kg	0.0262	0.0264	105.	75.9-124	0.610	20	WG747318
1,3-Dichlorobenzene	mg/kg	0.0273	0.0278	109.	72-126	2.12	20	WG747318
1,3-Dichloropropane	mg/kg	0.0264	0.0251	105.	79.1-117	4.97	20	WG747318
1,4-Dichlorobenzene	mg/kg	0.0261	0.0266	104.	78.3-117	2.00	20	WG747318
2,2-Dichloropropane	mg/kg	0.0245	0.0244	98.0	61.3-136	0.160	20	WG747318
2-Butanone (MEK)	mg/kg	0.150	0.131	120.	53.7-153	13.8	21.2	WG747318
2-Chloroethyl vinyl ether	mg/kg	0.145	0.137	116.	37.7-157	5.61	20	WG747318
2-Chlorotoluene	mg/kg	0.0259	0.0256	104.	75.6-121	1.12	20	WG747318
4-Chlorotoluene	mg/kg	0.0261	0.0265	104.	77.3-120	1.64	20	WG747318
4-Methyl-2-pentanone (MIBK)	mg/kg	0.160	0.141	128.	70.4-137	13.0	20	WG747318
Acetone	mg/kg	0.154	0.135	123.	35.1-175	13.3	26.1	WG747318
Acrylonitrile	mg/kg	0.159	0.146	127.	56.4-128	8.40	20	WG747318
Benzene	mg/kg	0.0255	0.0259	102.	77.1-121	1.47	20	WG747318
Bromobenzene	mg/kg	0.0247	0.0247	99.0	78.2-115	0.150	20	WG747318
Bromodichloromethane	mg/kg	0.0239	0.0238	96.0	74.9-115	0.370	20	WG747318
Bromoform	mg/kg	0.0292	0.0285	117.	65.9-132	2.53	20	WG747318
Bromomethane	mg/kg	0.0300	0.0309	120.	48.7-165	3.02	20	WG747318
Carbon tetrachloride	mg/kg	0.0246	0.0248	98.0	70-124	1.08	20	WG747318
Chlorobenzene	mg/kg	0.0255	0.0264	102.	79.1-119	3.70	20	WG747318
Chlorodibromomethane	mg/kg	0.0264	0.0257	106.	73.5-121	2.81	20	WG747318
Chloroethane	mg/kg	0.0265	0.0265	106.	66.2-132	0.0400	20	WG747318
Chloroform	mg/kg	0.0230	0.0233	92.0	76.7-122	1.17	20	WG747318
Chloromethane	mg/kg	0.0278	0.0288	111.	63.4-131	3.42	20	WG747318
cis-1,2-Dichloroethene	mg/kg	0.0250	0.0256	100.	78.2-119	2.42	20	WG747318
cis-1,3-Dichloropropene	mg/kg	0.0269	0.0268	108.	79.6-120	0.520	20	WG747318
Di-isopropyl ether	mg/kg	0.0255	0.0254	102.	70.4-133	0.150	20	WG747318
Dibromomethane	mg/kg	0.0261	0.0253	104.	79.4-120	3.05	20	WG747318
Dichlorodifluoromethane	mg/kg	0.0243	0.0239	97.0	57.1-137	1.95	20	WG747318
Ethylbenzene	mg/kg	0.0264	0.0262	106.	79.7-122	0.720	20	WG747318
Hexachloro-1,3-butadiene	mg/kg	0.0263	0.0267	105.	68.2-123	1.51	20	WG747318
Isopropylbenzene	mg/kg	0.0254	0.0259	102.	80-135	1.79	20	WG747318
Methyl tert-butyl ether	mg/kg	0.0248	0.0242	99.0	73-129	2.65	20	WG747318
Methylene Chloride	mg/kg	0.0236	0.0241	94.0	72.6-120	1.88	20	WG747318
n-Butylbenzene	mg/kg	0.0260	0.0267	104.	77.5-126	2.92	20	WG747318
n-Propylbenzene	mg/kg	0.0258	0.0262	103.	77.9-123	1.70	20	WG747318
Naphthalene	mg/kg	0.0280	0.0252	112.	69.8-128	10.4	20	WG747318
p-Isopropyltoluene	mg/kg	0.0271	0.0273	108.	75.8-129	0.810	20	WG747318
sec-Butylbenzene	mg/kg	0.0258	0.0259	103.	75.8-126	0.620	20	WG747318

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Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
Styrene	mg/kg	0.0270	0.0271	108.	82.4-126	0.360	20	WG747318
tert-Butylbenzene	mg/kg	0.0258	0.0257	103.	76.4-126	0.410	20	WG747318
Tetrachloroethene	mg/kg	0.0282	0.0289	113.	73.9-125	2.39	20	WG747318
Toluene	mg/kg	0.0266	0.0270	106.	79.7-118	1.31	20	WG747318
trans-1,2-Dichloroethene	mg/kg	0.0242	0.0248	97.0	73.8-122	2.27	20	WG747318
trans-1,3-Dichloropropene	mg/kg	0.0282	0.0282	113.	75.9-124	0.240	20	WG747318
Trichloroethene	mg/kg	0.0265	0.0265	106.	77.9-118	0.0500	20	WG747318
Trichlorofluoromethane	mg/kg	0.0225	0.0233	90.0	67.7-131	3.18	20	WG747318
Vinyl chloride	mg/kg	0.0261	0.0272	104.	66.7-130	4.05	20	WG747318
Xylenes, Total	mg/kg	0.0800	0.0803	107.	78.8-121	0.390	20	WG747318
4-Bromofluorobenzene				92.50	71-126			WG747318
Dibromofluoromethane				90.70	78.3-121			WG747318
Toluene-d8				99.80	88.5-111			WG747318

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0256	0.0	.025	100.	64-128	L724883-07	WG746251
1,1,1-Trichloroethane	mg/l	0.0266	0.0	.025	110.	58.7-134	L724883-07	WG746251
1,1,2,2-Tetrachloroethane	mg/l	0.0263	0.0	.025	100.	56-132	L724883-07	WG746251
1,1,2-Trichloroethane	mg/l	0.0272	0.0	.025	110.	66.3-125	L724883-07	WG746251
1,1,2-Trichlorotrifluoroethane	mg/l	0.0261	0.0	.025	100.	54.8-154	L724883-07	WG746251
1,1-Dichloroethane	mg/l	0.0272	0.0	.025	110.	58.5-132	L724883-07	WG746251
1,1-Dichloroethene	mg/l	0.0255	0.0	.025	100.	51.1-140	L724883-07	WG746251
1,1-Dichloropropene	mg/l	0.0273	0.0	.025	110.	57.3-136	L724883-07	WG746251
1,2,3-Trichlorobenzene	mg/l	0.0248	0.0	.025	99.0	59.1-138	L724883-07	WG746251
1,2,3-Trichloropropane	mg/l	0.0228	0.0	.025	91.0	61.4-128	L724883-07	WG746251
1,2,3-Trimethylbenzene	mg/l	0.190	0.172	.025	70.0	61.3-122	L724883-07	WG746251
1,2,4-Trichlorobenzene	mg/l	0.0257	0.0	.025	100.	63.6-143	L724883-07	WG746251
1,2,4-Trimethylbenzene	mg/l	0.0	0.410	.025	0.0*	57.4-137	L724883-07	WG746251
1,2-Dibromo-3-Chloropropane	mg/l	0.0245	0.0	.025	98.0	57.3-136	L724883-07	WG746251
1,2-Dibromoethane	mg/l	0.0257	0.0	.025	100.	67.1-125	L724883-07	WG746251
1,2-Dichlorobenzene	mg/l	0.0257	0.0	.025	100.	68.2-123	L724883-07	WG746251
1,2-Dichloroethane	mg/l	0.0235	0.0	.025	94.0	60-126	L724883-07	WG746251
1,2-Dichloropropane	mg/l	0.0276	0.0	.025	110.	64.2-123	L724883-07	WG746251
1,3,5-Trimethylbenzene	mg/l	0.196	0.181	.025	58.0*	63.6-132	L724883-07	WG746251
1,3-Dichlorobenzene	mg/l	0.0241	0.0	.025	96.0	63.1-131	L724883-07	WG746251
1,3-Dichloropropane	mg/l	0.0250	0.0	.025	100.	67.9-121	L724883-07	WG746251
1,4-Dichlorobenzene	mg/l	0.0261	0.0	.025	100.	68.6-123	L724883-07	WG746251
2,2-Dichloropropane	mg/l	0.0284	0.0	.025	110.	50.5-144	L724883-07	WG746251
2-Butanone (MEK)	mg/l	0.120	0.0	.125	96.0	22.4-138	L724883-07	WG746251
2-Chloroethyl vinyl ether	mg/l	0.00147	0.0	.125	1.20*	10-155	L724883-07	WG746251
2-Chlorotoluene	mg/l	0.0251	0.0	.025	100.	63.6-128	L724883-07	WG746251
4-Chlorotoluene	mg/l	0.0246	0.0	.025	98.0	65.7-127	L724883-07	WG746251
4-Methyl-2-pentanone (MIBK)	mg/l	0.136	0.0	.125	110.	60.8-140	L724883-07	WG746251
Acetone	mg/l	0.175	0.0	.125	140.*	10-130	L724883-07	WG746251
Acrolein	mg/l	0.272	0.0	.125	220.*	10-200	L724883-07	WG746251
Acrylonitrile	mg/l	0.156	0.0	.125	120.	49.4-133	L724883-07	WG746251
Benzene	mg/l	0.0570	0.0328	.025	97.0	54.3-133	L724883-07	WG746251
Bromobenzene	mg/l	0.0301	0.0	.025	120.	63.9-124	L724883-07	WG746251
Bromodichloromethane	mg/l	0.0252	0.0	.025	100.	63.9-121	L724883-07	WG746251
Bromoform	mg/l	0.0232	0.0	.025	93.0	59.5-134	L724883-07	WG746251
Bromomethane	mg/l	0.0210	0.0	.025	84.0	41.7-155	L724883-07	WG746251
Carbon tetrachloride	mg/l	0.0260	0.0	.025	100.	55.7-134	L724883-07	WG746251
Chlorobenzene	mg/l	0.0274	0.0	.025	110.	67-125	L724883-07	WG746251
Chlorodibromomethane	mg/l	0.0259	0.0	.025	100.	64.3-125	L724883-07	WG746251
Chloroethane	mg/l	0.0203	0.0	.025	81.0	51.5-136	L724883-07	WG746251
Chloroform	mg/l	0.0262	0.0	.025	100.	63-129	L724883-07	WG746251
Chloromethane	mg/l	0.0240	0.0	.025	96.0	42.4-135	L724883-07	WG746251

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Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
cis-1,2-Dichloroethene	mg/l	0.0260	0.0	.025	100.	59.2-129	L724883-07	WG746251
cis-1,3-Dichloropropene	mg/l	0.0272	0.0	.025	110.	66.4-125	L724883-07	WG746251
Di-isopropyl ether	mg/l	0.0274	0.0	.025	110.	56.9-136	L724883-07	WG746251
Dibromomethane	mg/l	0.0245	0.0	.025	98.0	68.2-124	L724883-07	WG746251
Dichlorodifluoromethane	mg/l	0.0201	0.0	.025	80.0	40.6-144	L724883-07	WG746251
Ethylbenzene	mg/l	0.243	0.237	.025	27.0*	61.4-133	L724883-07	WG746251
Hexachloro-1,3-butadiene	mg/l	0.0260	0.0	.025	100.	55.1-136	L724883-07	WG746251
Isopropylbenzene	mg/l	0.0416	0.0168	.025	99.0	66.8-141	L724883-07	WG746251
Methyl tert-butyl ether	mg/l	0.0248	0.0	.025	99.0	57.7-134	L724883-07	WG746251
Methylene Chloride	mg/l	0.0246	0.0	.025	98.0	58.1-122	L724883-07	WG746251
n-Butylbenzene	mg/l	0.0327	0.00624	.025	110.	62.7-140	L724883-07	WG746251
n-Propylbenzene	mg/l	0.0679	0.0450	.025	92.0	65.9-131	L724883-07	WG746251
Naphthalene	mg/l	0.134	0.110	.025	93.0	58-135	L724883-07	WG746251
p-Isopropyltoluene	mg/l	0.0284	0.0118	.025	66.0	63.2-139	L724883-07	WG746251
sec-Butylbenzene	mg/l	0.0276	0.00289	.025	99.0	62.2-136	L724883-07	WG746251
Styrene	mg/l	0.0246	0.0	.025	98.0	66.8-133	L724883-07	WG746251
tert-Butylbenzene	mg/l	0.0257	0.0	.025	100.	63.3-134	L724883-07	WG746251
Tetrachloroethene	mg/l	0.0266	0.0	.025	110.	53-139	L724883-07	WG746251
Toluene	mg/l	0.0381	0.0118	.025	100.	61.4-130	L724883-07	WG746251
trans-1,2-Dichloroethene	mg/l	0.0259	0.0	.025	100.	56.5-129	L724883-07	WG746251
trans-1,3-Dichloropropene	mg/l	0.0270	0.0	.025	110.	64.1-128	L724883-07	WG746251
Trichloroethene	mg/l	0.0270	0.0	.025	110.	44.1-149	L724883-07	WG746251
Trichlorofluoromethane	mg/l	0.0236	0.0	.025	94.0	49.6-145	L724883-07	WG746251
Vinyl chloride	mg/l	0.0227	0.0	.025	91.0	47.8-137	L724883-07	WG746251
Xylenes, Total	mg/l	1.25	0.0	.075	1700*	63.3-131	L724883-07	WG746251
4-Bromofluorobenzene					101.0	71-126		WG746251
Dibromofluoromethane					95.90	78.3-121		WG746251
Toluene-d8					106.0	88.5-111		WG746251
1,1,1,2-Tetrachloroethane	mg/kg	0.121	0.0	.025	97.0	64-128	L724914-34	WG746295
1,1,1-Trichloroethane	mg/kg	0.125	0.0	.025	100.	58.7-134	L724914-34	WG746295
1,1,2,2-Tetrachloroethane	mg/kg	0.110	0.0	.025	88.0	56-132	L724914-34	WG746295
1,1,2-Trichloroethane	mg/kg	0.103	0.0	.025	82.0	66.3-125	L724914-34	WG746295
1,1,2-Trichlorotrifluoroethane	mg/kg	0.112	0.0	.025	90.0	54.8-154	L724914-34	WG746295
1,1-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	58.5-132	L724914-34	WG746295
1,1-Dichloroethene	mg/kg	0.109	0.0	.025	87.0	51.1-140	L724914-34	WG746295
1,1-Dichloropropene	mg/kg	0.114	0.0	.025	91.0	57.3-136	L724914-34	WG746295
1,2,3-Trichlorobenzene	mg/kg	0.129	0.0	.025	100.	59.1-138	L724914-34	WG746295
1,2,3-Trichloropropane	mg/kg	0.102	0.0	.025	82.0	61.4-128	L724914-34	WG746295
1,2,3-Trimethylbenzene	mg/kg	0.117	0.0	.025	94.0	61.3-122	L724914-34	WG746295
1,2,4-Trichlorobenzene	mg/kg	0.117	0.0	.025	93.0	63.6-143	L724914-34	WG746295
1,2,4-Trimethylbenzene	mg/kg	0.110	0.0	.025	88.0	57.4-137	L724914-34	WG746295
1,2-Dibromo-3-Chloropropane	mg/kg	0.111	0.0	.025	89.0	57.3-136	L724914-34	WG746295
1,2-Dibromoethane	mg/kg	0.105	0.0	.025	84.0	67.1-125	L724914-34	WG746295
1,2-Dichlorobenzene	mg/kg	0.113	0.0	.025	91.0	68.2-123	L724914-34	WG746295
1,2-Dichloroethane	mg/kg	0.117	0.0	.025	94.0	60-126	L724914-34	WG746295
1,2-Dichloropropane	mg/kg	0.128	0.0	.025	100.	64.2-123	L724914-34	WG746295
1,3,5-Trimethylbenzene	mg/kg	0.109	0.0	.025	87.0	63.6-132	L724914-34	WG746295
1,3-Dichlorobenzene	mg/kg	0.109	0.0	.025	87.0	63.1-131	L724914-34	WG746295
1,3-Dichloropropane	mg/kg	0.108	0.0	.025	86.0	67.9-121	L724914-34	WG746295
1,4-Dichlorobenzene	mg/kg	0.108	0.0	.025	86.0	68.6-123	L724914-34	WG746295
2,2-Dichloropropane	mg/kg	0.129	0.0	.025	100.	50.5-144	L724914-34	WG746295
2-Butanone (MEK)	mg/kg	0.526	0.0	.125	84.0	22.4-138	L724914-34	WG746295
2-Chloroethyl vinyl ether	mg/kg	0.516	0.0	.125	82.0	10-155	L724914-34	WG746295
2-Chlorotoluene	mg/kg	0.109	0.0	.025	87.0	63.6-128	L724914-34	WG746295
4-Chlorotoluene	mg/kg	0.110	0.0	.025	88.0	65.7-127	L724914-34	WG746295
4-Methyl-2-pentanone (MIBK)	mg/kg	0.572	0.0	.125	92.0	60.8-140	L724914-34	WG746295
Acetone	mg/kg	0.559	0.00400	.125	89.0	10-130	L724914-34	WG746295

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Est. 1970

PES Environmental, Inc.- WA
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1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

October 08, 2014

L724975

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Acrylonitrile	mg/kg	0.573	0.0	.125	92.0	49.4-133	L724914-34	WG746295
Benzene	mg/kg	0.112	0.0	.025	90.0	54.3-133	L724914-34	WG746295
Bromobenzene	mg/kg	0.109	0.0	.025	87.0	63.9-124	L724914-34	WG746295
Bromodichloromethane	mg/kg	0.117	0.0	.025	94.0	63.9-121	L724914-34	WG746295
Bromoform	mg/kg	0.122	0.0	.025	98.0	59.5-134	L724914-34	WG746295
Bromomethane	mg/kg	0.120	0.0	.025	96.0	41.7-155	L724914-34	WG746295
Carbon tetrachloride	mg/kg	0.134	0.0	.025	110.	55.7-134	L724914-34	WG746295
Chlorobenzene	mg/kg	0.105	0.0	.025	84.0	67-125	L724914-34	WG746295
Chlorodibromomethane	mg/kg	0.117	0.0	.025	94.0	64.3-125	L724914-34	WG746295
Chloroethane	mg/kg	0.131	0.0	.025	100.	51.5-136	L724914-34	WG746295
Chloroform	mg/kg	0.116	0.0	.025	93.0	63-129	L724914-34	WG746295
Chloromethane	mg/kg	0.122	0.0	.025	98.0	42.4-135	L724914-34	WG746295
cis-1,2-Dichloroethene	mg/kg	0.112	0.0	.025	89.0	59.2-129	L724914-34	WG746295
cis-1,3-Dichloropropene	mg/kg	0.121	0.0	.025	97.0	66.4-125	L724914-34	WG746295
Di-isopropyl ether	mg/kg	0.120	0.0	.025	96.0	56.9-136	L724914-34	WG746295
Dibromomethane	mg/kg	0.119	0.0	.025	96.0	68.2-124	L724914-34	WG746295
Dichlorodifluoromethane	mg/kg	0.116	0.0	.025	93.0	40.6-144	L724914-34	WG746295
Ethylbenzene	mg/kg	0.108	0.0	.025	86.0	61.4-133	L724914-34	WG746295
Hexachloro-1,3-butadiene	mg/kg	0.106	0.0	.025	85.0	55.1-136	L724914-34	WG746295
Isopropylbenzene	mg/kg	0.113	0.0	.025	90.0	66.8-141	L724914-34	WG746295
Methyl tert-butyl ether	mg/kg	0.109	0.0	.025	88.0	57.7-134	L724914-34	WG746295
Methylene Chloride	mg/kg	0.104	0.000309	.025	83.0	58.1-122	L724914-34	WG746295
n-Butylbenzene	mg/kg	0.120	0.0	.025	96.0	62.7-140	L724914-34	WG746295
n-Propylbenzene	mg/kg	0.112	0.0	.025	89.0	10-176	L724914-34	WG746295
Naphthalene	mg/kg	0.114	0.0	.025	91.0	58-135	L724914-34	WG746295
p-Isopropyltoluene	mg/kg	0.113	0.0	.025	90.0	63.2-139	L724914-34	WG746295
sec-Butylbenzene	mg/kg	0.108	0.0	.025	87.0	62.2-136	L724914-34	WG746295
Styrene	mg/kg	0.110	0.0	.025	88.0	66.8-133	L724914-34	WG746295
tert-Butylbenzene	mg/kg	0.111	0.0	.025	89.0	63.3-134	L724914-34	WG746295
Tetrachloroethene	mg/kg	0.110	0.0	.025	88.0	53-139	L724914-34	WG746295
Toluene	mg/kg	0.114	0.0	.025	91.0	61.4-130	L724914-34	WG746295
trans-1,2-Dichloroethene	mg/kg	0.113	0.0	.025	91.0	56.5-129	L724914-34	WG746295
trans-1,3-Dichloropropene	mg/kg	0.119	0.0	.025	95.0	64.1-128	L724914-34	WG746295
Trichloroethene	mg/kg	0.116	0.0	.025	93.0	44.1-149	L724914-34	WG746295
Trichlorofluoromethane	mg/kg	0.134	0.0	.025	110.	49.6-145	L724914-34	WG746295
Vinyl chloride	mg/kg	0.121	0.0	.025	97.0	47.8-137	L724914-34	WG746295
Xylenes, Total	mg/kg	0.319	0.0	.075	85.0	63.3-131	L724914-34	WG746295
4-Bromofluorobenzene					94.20	71-126		WG746295
Dibromofluoromethane					97.90	78.3-121		WG746295
Toluene-d8					103.0	88.5-111		WG746295
1,1,1,2-Tetrachloroethane	mg/kg	0.120	0.0	.025	96.0	64-128	L725520-01	WG747318
1,1,1-Trichloroethane	mg/kg	0.110	0.0	.025	88.0	58.7-134	L725520-01	WG747318
1,1,2,2-Tetrachloroethane	mg/kg	0.127	0.0	.025	100.	56-132	L725520-01	WG747318
1,1,2-Trichloroethane	mg/kg	0.122	0.0	.025	98.0	66.3-125	L725520-01	WG747318
1,1,2-Trichlorotrifluoroethane	mg/kg	0.105	0.0	.025	84.0	54.8-154	L725520-01	WG747318
1,1-Dichloroethane	mg/kg	0.120	0.0	.025	96.0	58.5-132	L725520-01	WG747318
1,1-Dichloroethene	mg/kg	0.0989	0.0	.025	79.0	51.1-140	L725520-01	WG747318
1,1-Dichloropropene	mg/kg	0.107	0.0	.025	85.0	57.3-136	L725520-01	WG747318
1,2,3-Trichlorobenzene	mg/kg	0.0700	0.0	.025	56.0*	59.1-138	L725520-01	WG747318
1,2,3-Trichloropropane	mg/kg	0.120	0.0	.025	96.0	61.4-128	L725520-01	WG747318
1,2,3-Trimethylbenzene	mg/kg	0.0975	0.0	.025	78.0	61.3-122	L725520-01	WG747318
1,2,4-Trichlorobenzene	mg/kg	0.0764	0.0	.025	61.0*	63.6-143	L725520-01	WG747318
1,2,4-Trimethylbenzene	mg/kg	0.100	0.0	.025	80.0	57.4-137	L725520-01	WG747318
1,2-Dibromo-3-Chloropropane	mg/kg	0.107	0.0	.025	86.0	57.3-136	L725520-01	WG747318
1,2-Dibromoethane	mg/kg	0.118	0.0	.025	95.0	67.1-125	L725520-01	WG747318
1,2-Dichlorobenzene	mg/kg	0.0972	0.0	.025	78.0	68.2-123	L725520-01	WG747318
1,2-Dichloroethane	mg/kg	0.104	0.0	.025	83.0	60-126	L725520-01	WG747318

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Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/kg	0.137	0.0	.025	110.	64.2-123	L725520-01	WG747318
1,3,5-Trimethylbenzene	mg/kg	0.102	0.0	.025	82.0	63.6-132	L725520-01	WG747318
1,3-Dichlorobenzene	mg/kg	0.102	0.0	.025	82.0	63.1-131	L725520-01	WG747318
1,3-Dichloropropane	mg/kg	0.120	0.0	.025	96.0	67.9-121	L725520-01	WG747318
1,4-Dichlorobenzene	mg/kg	0.101	0.0	.025	80.0	68.6-123	L725520-01	WG747318
2,2-Dichloropropane	mg/kg	0.119	0.0	.025	95.0	50.5-144	L725520-01	WG747318
2-Butanone (MEK)	mg/kg	0.618	0.0	.125	99.0	22.4-138	L725520-01	WG747318
2-Chloroethyl vinyl ether	mg/kg	0.644	0.0	.125	100.	10-155	L725520-01	WG747318
2-Chlorotoluene	mg/kg	0.106	0.0	.025	84.0	63.6-128	L725520-01	WG747318
4-Chlorotoluene	mg/kg	0.101	0.0	.025	81.0	65.7-127	L725520-01	WG747318
4-Methyl-2-pentanone (MIBK)	mg/kg	0.671	0.0	.125	110.	60.8-140	L725520-01	WG747318
Acetone	mg/kg	0.601	0.0358	.125	90.0	10-130	L725520-01	WG747318
Acrylonitrile	mg/kg	0.676	0.0	.125	110.	49.4-133	L725520-01	WG747318
Benzene	mg/kg	0.121	0.0	.025	97.0	54.3-133	L725520-01	WG747318
Bromobenzene	mg/kg	0.105	0.0	.025	84.0	63.9-124	L725520-01	WG747318
Bromodichloromethane	mg/kg	0.115	0.0	.025	92.0	63.9-121	L725520-01	WG747318
Bromoform	mg/kg	0.125	0.0	.025	100.	59.5-134	L725520-01	WG747318
Bromomethane	mg/kg	0.149	0.0	.025	120.	41.7-155	L725520-01	WG747318
Carbon tetrachloride	mg/kg	0.111	0.0	.025	89.0	55.7-134	L725520-01	WG747318
Chlorobenzene	mg/kg	0.114	0.0	.025	92.0	67-125	L725520-01	WG747318
Chlorodibromomethane	mg/kg	0.119	0.0	.025	95.0	64.3-125	L725520-01	WG747318
Chloroethane	mg/kg	0.123	0.0	.025	98.0	51.5-136	L725520-01	WG747318
Chloroform	mg/kg	0.111	0.0	.025	88.0	63-129	L725520-01	WG747318
Chloromethane	mg/kg	0.131	0.0	.025	100.	42.4-135	L725520-01	WG747318
cis-1,2-Dichloroethene	mg/kg	0.120	0.0	.025	96.0	59.2-129	L725520-01	WG747318
cis-1,3-Dichloropropene	mg/kg	0.126	0.0	.025	100.	66.4-125	L725520-01	WG747318
Di-isopropyl ether	mg/kg	0.122	0.0	.025	97.0	56.9-136	L725520-01	WG747318
Dibromomethane	mg/kg	0.124	0.0	.025	99.0	68.2-124	L725520-01	WG747318
Dichlorodifluoromethane	mg/kg	0.110	0.0	.025	88.0	40.6-144	L725520-01	WG747318
Ethylbenzene	mg/kg	0.115	0.0	.025	92.0	61.4-133	L725520-01	WG747318
Hexachloro-1,3-butadiene	mg/kg	0.0627	0.0	.025	50.0*	55.1-136	L725520-01	WG747318
Isopropylbenzene	mg/kg	0.104	0.0	.025	83.0	66.8-141	L725520-01	WG747318
Methyl tert-butyl ether	mg/kg	0.118	0.0	.025	94.0	57.7-134	L725520-01	WG747318
Methylene Chloride	mg/kg	0.111	0.000332	.025	89.0	58.1-122	L725520-01	WG747318
n-Butylbenzene	mg/kg	0.0836	0.0	.025	67.0	62.7-140	L725520-01	WG747318
n-Propylbenzene	mg/kg	0.0971	0.0	.025	78.0	10-176	L725520-01	WG747318
Naphthalene	mg/kg	0.0765	0.0	.025	61.0	58-135	L725520-01	WG747318
p-Isopropyltoluene	mg/kg	0.0926	0.0	.025	74.0	63.2-139	L725520-01	WG747318
sec-Butylbenzene	mg/kg	0.0890	0.0	.025	71.0	62.2-136	L725520-01	WG747318
Styrene	mg/kg	0.117	0.0	.025	94.0	66.8-133	L725520-01	WG747318
tert-Butylbenzene	mg/kg	0.0973	0.0	.025	78.0	63.3-134	L725520-01	WG747318
Tetrachloroethene	mg/kg	0.118	0.0	.025	94.0	53-139	L725520-01	WG747318
Toluene	mg/kg	0.121	0.0	.025	97.0	61.4-130	L725520-01	WG747318
trans-1,2-Dichloroethene	mg/kg	0.114	0.0	.025	91.0	56.5-129	L725520-01	WG747318
trans-1,3-Dichloropropene	mg/kg	0.133	0.0	.025	110.	64.1-128	L725520-01	WG747318
Trichloroethene	mg/kg	0.119	0.0	.025	95.0	44.1-149	L725520-01	WG747318
Trichlorofluoromethane	mg/kg	0.109	0.0	.025	87.0	49.6-145	L725520-01	WG747318
Vinyl chloride	mg/kg	0.128	0.0	.025	100.	47.8-137	L725520-01	WG747318
Xylenes, Total	mg/kg	0.339	0.0	.075	90.0	63.3-131	L725520-01	WG747318
4-Bromofluorobenzene					91.10	71-126		WG747318
Dibromofluoromethane					94.50	78.3-121		WG747318
Toluene-d8					101.0	88.5-111		WG747318

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0248	0.0256	99.2	64-128	3.09	20	L724883-07	WG746251
1,1,1-Trichloroethane	mg/l	0.0260	0.0266	104.	58.7-134	2.25	20	L724883-07	WG746251
1,1,2,2-Tetrachloroethane	mg/l	0.0247	0.0263	98.7	56-132	6.30	22.2	L724883-07	WG746251

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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0274	0.0272	110.	66.3-125	1.01	20	L724883-07	WG746251
1,1,2-Trichlorotrifluoroethane	mg/l	0.0258	0.0261	103.	54.8-154	1.15	22.5	L724883-07	WG746251
1,1-Dichloroethane	mg/l	0.0268	0.0272	107.	58.5-132	1.23	20	L724883-07	WG746251
1,1-Dichloroethene	mg/l	0.0254	0.0255	102.	51.1-140	0.260	20.2	L724883-07	WG746251
1,1-Dichloropropene	mg/l	0.0266	0.0273	106.	57.3-136	2.38	20	L724883-07	WG746251
1,2,3-Trichlorobenzene	mg/l	0.0222	0.0248	88.6	59.1-138	11.4	23.7	L724883-07	WG746251
1,2,3-Trichloropropane	mg/l	0.0222	0.0228	88.8	61.4-128	2.75	22.4	L724883-07	WG746251
1,2,3-Trimethylbenzene	mg/l	0.194	0.190	85.8	61.3-122	2.02	20	L724883-07	WG746251
1,2,4-Trichlorobenzene	mg/l	0.0229	0.0257	91.7	63.6-143	11.5	21.9	L724883-07	WG746251
1,2,4-Trimethylbenzene	mg/l	0.0	0.0	0*	57.4-137	0.0	20	L724883-07	WG746251
1,2-Dibromo-3-Chloropropane	mg/l	0.0238	0.0245	95.1	57.3-136	3.19	27	L724883-07	WG746251
1,2-Dibromoethane	mg/l	0.0257	0.0257	103.	67.1-125	0.0100	20	L724883-07	WG746251
1,2-Dichlorobenzene	mg/l	0.0255	0.0257	102.	68.2-123	0.860	20	L724883-07	WG746251
1,2-Dichloroethane	mg/l	0.0234	0.0235	93.8	60-126	0.250	20	L724883-07	WG746251
1,2-Dichloropropane	mg/l	0.0282	0.0276	113.	64.2-123	2.08	20	L724883-07	WG746251
1,3,5-Trimethylbenzene	mg/l	0.185	0.196	15.5*	63.6-132	5.54	20.5	L724883-07	WG746251
1,3-Dichlorobenzene	mg/l	0.0226	0.0241	90.2	63.1-131	6.45	20	L724883-07	WG746251
1,3-Dichloropropane	mg/l	0.0248	0.0250	99.4	67.9-121	0.680	20	L724883-07	WG746251
1,4-Dichlorobenzene	mg/l	0.0263	0.0261	105.	68.6-123	0.810	20	L724883-07	WG746251
2,2-Dichloropropane	mg/l	0.0271	0.0284	108.	50.5-144	4.67	21.9	L724883-07	WG746251
2-Butanone (MEK)	mg/l	0.113	0.120	90.3	22.4-138	6.43	27	L724883-07	WG746251
2-Chloroethyl vinyl ether	mg/l	0.000569	0.00147	0.455*	10-155	88.2*	20	L724883-07	WG746251
2-Chlorotoluene	mg/l	0.0240	0.0251	95.9	63.6-128	4.70	20	L724883-07	WG746251
4-Chlorotoluene	mg/l	0.0234	0.0246	93.5	65.7-127	5.01	20	L724883-07	WG746251
4-Methyl-2-pentanone (MIBK)	mg/l	0.131	0.136	105.	60.8-140	3.52	25.1	L724883-07	WG746251
Acetone	mg/l	0.169	0.175	136.*	10-130	3.13	27.9	L724883-07	WG746251
Acrolein	mg/l	0.269	0.272	215.*	10-200	1.01	27.7	L724883-07	WG746251
Acrylonitrile	mg/l	0.146	0.156	117.	49.4-133	6.21	25.3	L724883-07	WG746251
Benzene	mg/l	0.0569	0.0570	96.1	54.3-133	0.340	20	L724883-07	WG746251
Bromobenzene	mg/l	0.0289	0.0301	115.	63.9-124	4.03	20	L724883-07	WG746251
Bromodichloromethane	mg/l	0.0256	0.0252	102.	63.9-121	1.34	20	L724883-07	WG746251
Bromoform	mg/l	0.0228	0.0232	91.4	59.5-134	1.41	20.5	L724883-07	WG746251
Bromomethane	mg/l	0.0205	0.0210	82.0	41.7-155	2.23	21.9	L724883-07	WG746251
Carbon tetrachloride	mg/l	0.0254	0.0260	102.	55.7-134	2.19	20	L724883-07	WG746251
Chlorobenzene	mg/l	0.0273	0.0274	109.	67-125	0.180	20	L724883-07	WG746251
Chlorodibromomethane	mg/l	0.0257	0.0259	103.	64.3-125	0.900	20.8	L724883-07	WG746251
Chloroethane	mg/l	0.0203	0.0203	81.1	51.5-136	0.160	40	L724883-07	WG746251
Chloroform	mg/l	0.0261	0.0262	104.	63-129	0.450	20	L724883-07	WG746251
Chloromethane	mg/l	0.0247	0.0240	98.8	42.4-135	2.73	20	L724883-07	WG746251
cis-1,2-Dichloroethene	mg/l	0.0257	0.0260	103.	59.2-129	1.08	20	L724883-07	WG746251
cis-1,3-Dichloropropene	mg/l	0.0274	0.0272	109.	66.4-125	0.450	20	L724883-07	WG746251
Di-isopropyl ether	mg/l	0.0271	0.0274	108.	56.9-136	1.39	20	L724883-07	WG746251
Dibromomethane	mg/l	0.0247	0.0245	98.7	68.2-124	0.850	20	L724883-07	WG746251
Dichlorodifluoromethane	mg/l	0.0208	0.0201	83.2	40.6-144	3.57	20.2	L724883-07	WG746251
Ethylbenzene	mg/l	0.242	0.243	22.4*	61.4-133	0.460	20	L724883-07	WG746251
Hexachloro-1,3-butadiene	mg/l	0.0240	0.0260	96.1	55.1-136	7.85	23.6	L724883-07	WG746251
Isopropylbenzene	mg/l	0.0398	0.0416	92.0	66.8-141	4.28	20	L724883-07	WG746251
Methyl tert-butyl ether	mg/l	0.0236	0.0248	94.3	57.7-134	5.19	20	L724883-07	WG746251
Methylene Chloride	mg/l	0.0241	0.0246	96.5	58.1-122	1.83	20	L724883-07	WG746251
n-Butylbenzene	mg/l	0.0322	0.0327	104.	62.7-140	1.51	20.3	L724883-07	WG746251
n-Propylbenzene	mg/l	0.0646	0.0679	78.6	65.9-131	4.96	20	L724883-07	WG746251
Naphthalene	mg/l	0.125	0.134	58.4	58-135	6.59	25.5	L724883-07	WG746251
p-Isopropyltoluene	mg/l	0.0251	0.0284	53.5*	63.2-139	12.2	20.4	L724883-07	WG746251
sec-Butylbenzene	mg/l	0.0258	0.0276	91.4	62.2-136	6.82	20.3	L724883-07	WG746251
Styrene	mg/l	0.0243	0.0246	97.2	66.8-133	1.15	20	L724883-07	WG746251
tert-Butylbenzene	mg/l	0.0239	0.0257	95.5	63.3-134	7.36	21	L724883-07	WG746251
Tetrachloroethene	mg/l	0.0266	0.0266	106.	53-139	0.140	20	L724883-07	WG746251
Toluene	mg/l	0.0379	0.0381	104.	61.4-130	0.530	20	L724883-07	WG746251
trans-1,2-Dichloroethene	mg/l	0.0257	0.0259	103.	56.5-129	0.750	20	L724883-07	WG746251

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Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
trans-1,3-Dichloropropene	mg/l	0.0270	0.0270	108.	64.1-128	0.160	20	L724883-07	WG746251
Trichloroethene	mg/l	0.0270	0.0270	108.	44.1-149	0.140	20	L724883-07	WG746251
Trichlorofluoromethane	mg/l	0.0236	0.0236	94.3	49.6-145	0.280	21.2	L724883-07	WG746251
Vinyl chloride	mg/l	0.0229	0.0227	91.4	47.8-137	0.770	20	L724883-07	WG746251
Xylenes, Total	mg/l	1.22	1.25	1620*	63.3-131	2.44	20	L724883-07	WG746251
4-Bromofluorobenzene				96.30	71-126				WG746251
Dibromofluoromethane				93.50	78.3-121				WG746251
Toluene-d8				106.0	88.5-111				WG746251
1,1,1,2-Tetrachloroethane	mg/kg	0.123	0.121	98.1	64-128	1.37	20	L724914-34	WG746295
1,1,1-Trichloroethane	mg/kg	0.119	0.125	95.6	58.7-134	4.30	20	L724914-34	WG746295
1,1,2,2-Tetrachloroethane	mg/kg	0.115	0.110	92.3	56-132	4.72	22.2	L724914-34	WG746295
1,1,2-Trichloroethane	mg/kg	0.115	0.103	92.1	66.3-125	11.0	20	L724914-34	WG746295
1,1,2-Trichlorotrifluoroethane	mg/kg	0.101	0.112	80.6	54.8-154	10.4	22.5	L724914-34	WG746295
1,1-Dichloroethane	mg/kg	0.111	0.115	88.5	58.5-132	3.56	20	L724914-34	WG746295
1,1-Dichloroethene	mg/kg	0.102	0.109	81.7	51.1-140	6.55	20.2	L724914-34	WG746295
1,1-Dichloropropene	mg/kg	0.105	0.114	84.3	57.3-136	7.70	20	L724914-34	WG746295
1,2,3-Trichlorobenzene	mg/kg	0.105	0.129	84.0	59.1-138	20.3	23.7	L724914-34	WG746295
1,2,3-Trichloropropane	mg/kg	0.114	0.102	90.9	61.4-128	10.4	22.4	L724914-34	WG746295
1,2,3-Trimethylbenzene	mg/kg	0.105	0.117	83.7	61.3-122	11.0	20	L724914-34	WG746295
1,2,4-Trichlorobenzene	mg/kg	0.0939	0.117	75.1	63.6-143	21.8	21.9	L724914-34	WG746295
1,2,4-Trimethylbenzene	mg/kg	0.101	0.110	81.1	57.4-137	8.60	20	L724914-34	WG746295
1,2-Dibromo-3-Chloropropane	mg/kg	0.111	0.111	88.6	57.3-136	0.550	27	L724914-34	WG746295
1,2-Dibromoethane	mg/kg	0.111	0.105	88.7	67.1-125	5.41	20	L724914-34	WG746295
1,2-Dichlorobenzene	mg/kg	0.103	0.113	82.7	68.2-123	9.10	20	L724914-34	WG746295
1,2-Dichloroethane	mg/kg	0.117	0.117	93.4	60-126	0.420	20	L724914-34	WG746295
1,2-Dichloropropane	mg/kg	0.119	0.128	95.3	64.2-123	7.46	20	L724914-34	WG746295
1,3,5-Trimethylbenzene	mg/kg	0.0979	0.109	78.3	63.6-132	10.4	20.5	L724914-34	WG746295
1,3-Dichlorobenzene	mg/kg	0.0986	0.109	78.8	63.1-131	10.1	20	L724914-34	WG746295
1,3-Dichloropropane	mg/kg	0.109	0.108	87.0	67.9-121	1.00	20	L724914-34	WG746295
1,4-Dichlorobenzene	mg/kg	0.0957	0.108	76.5	68.6-123	11.9	20	L724914-34	WG746295
2,2-Dichloropropane	mg/kg	0.130	0.129	104.	50.5-144	1.25	21.9	L724914-34	WG746295
2-Butanone (MEK)	mg/kg	0.570	0.526	91.2	22.4-138	7.97	27	L724914-34	WG746295
2-Chloroethyl vinyl ether	mg/kg	0.541	0.516	86.5	10-155	4.71	40	L724914-34	WG746295
2-Chlorotoluene	mg/kg	0.101	0.109	81.1	63.6-128	6.94	20	L724914-34	WG746295
4-Chlorotoluene	mg/kg	0.101	0.110	80.8	65.7-127	8.85	20	L724914-34	WG746295
4-Methyl-2-pentanone (MIBK)	mg/kg	0.638	0.572	102.	60.8-140	11.0	25.1	L724914-34	WG746295
Acetone	mg/kg	0.554	0.559	88.0	10-130	0.900	27.9	L724914-34	WG746295
Acrylonitrile	mg/kg	0.604	0.573	96.7	49.4-133	5.40	25.3	L724914-34	WG746295
Benzene	mg/kg	0.108	0.112	86.3	54.3-133	3.85	20	L724914-34	WG746295
Bromobenzene	mg/kg	0.103	0.109	82.1	63.9-124	5.98	20	L724914-34	WG746295
Bromodichloromethane	mg/kg	0.122	0.117	97.2	63.9-121	3.54	20	L724914-34	WG746295
Bromoform	mg/kg	0.135	0.122	108.	59.5-134	9.86	20.8	L724914-34	WG746295
Bromomethane	mg/kg	0.121	0.120	96.9	41.7-155	0.710	20.5	L724914-34	WG746295
Carbon tetrachloride	mg/kg	0.121	0.134	96.6	55.7-134	10.6	20.3	L724914-34	WG746295
Chlorobenzene	mg/kg	0.106	0.105	84.8	67-125	1.40	20	L724914-34	WG746295
Chlorodibromomethane	mg/kg	0.120	0.117	96.1	64.3-125	2.62	20	L724914-34	WG746295
Chloroethane	mg/kg	0.123	0.131	98.5	51.5-136	6.36	20.8	L724914-34	WG746295
Chloroform	mg/kg	0.113	0.116	90.3	63-129	2.54	20	L724914-34	WG746295
Chloromethane	mg/kg	0.119	0.122	95.6	42.4-135	2.17	20	L724914-34	WG746295
cis-1,2-Dichloroethene	mg/kg	0.109	0.112	87.4	59.2-129	2.34	20	L724914-34	WG746295
cis-1,3-Dichloropropene	mg/kg	0.118	0.121	94.5	66.4-125	2.28	20	L724914-34	WG746295
Di-isopropyl ether	mg/kg	0.119	0.120	95.1	56.9-136	0.590	20	L724914-34	WG746295
Dibromomethane	mg/kg	0.115	0.119	92.0	68.2-124	3.80	20	L724914-34	WG746295
Dichlorodifluoromethane	mg/kg	0.115	0.116	91.8	40.6-144	1.10	20.2	L724914-34	WG746295
Ethylbenzene	mg/kg	0.105	0.108	83.9	61.4-133	3.09	20	L724914-34	WG746295
Hexachloro-1,3-butadiene	mg/kg	0.0718	0.106	57.5	55.1-136	38.7*	23.6	L724914-34	WG746295
Isopropylbenzene	mg/kg	0.103	0.113	82.1	66.8-141	9.45	20	L724914-34	WG746295

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October 08, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/kg	0.114	0.109	90.9	57.7-134	3.79	20	L724914-34	WG746295
Methylene Chloride	mg/kg	0.101	0.104	80.7	58.1-122	3.15	20	L724914-34	WG746295
n-Butylbenzene	mg/kg	0.0935	0.120	74.8	62.7-140	24.7*	20	L724914-34	WG746295
n-Propylbenzene	mg/kg	0.0975	0.112	78.0	10-176	13.6	26.6	L724914-34	WG746295
Naphthalene	mg/kg	0.106	0.114	84.4	58-135	7.80	25.5	L724914-34	WG746295
p-Isopropyltoluene	mg/kg	0.0962	0.113	76.9	63.2-139	16.0	20.4	L724914-34	WG746295
sec-Butylbenzene	mg/kg	0.0957	0.108	76.6	62.2-136	12.3	20.3	L724914-34	WG746295
Styrene	mg/kg	0.107	0.110	85.9	66.8-133	2.85	20	L724914-34	WG746295
tert-Butylbenzene	mg/kg	0.0984	0.111	78.7	63.3-134	12.1	20.3	L724914-34	WG746295
Tetrachloroethene	mg/kg	0.102	0.110	81.4	53-139	7.54	20	L724914-34	WG746295
Toluene	mg/kg	0.107	0.114	85.5	61.4-130	6.53	20	L724914-34	WG746295
trans-1,2-Dichloroethene	mg/kg	0.109	0.113	87.4	56.5-129	3.57	20	L724914-34	WG746295
trans-1,3-Dichloropropene	mg/kg	0.123	0.119	98.0	64.1-128	3.14	20	L724914-34	WG746295
Trichloroethene	mg/kg	0.110	0.116	88.2	44.1-149	5.17	20	L724914-34	WG746295
Trichlorofluoromethane	mg/kg	0.126	0.134	100.	49.6-145	6.47	21.2	L724914-34	WG746295
Vinyl chloride	mg/kg	0.118	0.121	94.6	47.8-137	2.17	20	L724914-34	WG746295
Xylenes, Total	mg/kg	0.306	0.319	81.6	63.3-131	4.15	20	L724914-34	WG746295
4-Bromofluorobenzene				96.10	71-126				WG746295
Dibromofluoromethane				104.0	78.3-121				WG746295
Toluene-d8				103.0	88.5-111				WG746295
1,1,1,2-Tetrachloroethane	mg/kg	0.116	0.120	93.1	64-128	3.25	20	L725520-01	WG747318
1,1,1-Trichloroethane	mg/kg	0.106	0.110	84.5	58.7-134	4.42	20	L725520-01	WG747318
1,1,2,2-Tetrachloroethane	mg/kg	0.128	0.127	102.	56-132	0.660	22.2	L725520-01	WG747318
1,1,2-Trichloroethane	mg/kg	0.123	0.122	98.5	66.3-125	0.810	20	L725520-01	WG747318
1,1,2-Trichlorotrifluoroethane	mg/kg	0.102	0.105	81.4	54.8-154	2.81	22.5	L725520-01	WG747318
1,1-Dichloroethane	mg/kg	0.116	0.120	92.4	58.5-132	3.73	20	L725520-01	WG747318
1,1-Dichloroethene	mg/kg	0.0945	0.0989	75.6	51.1-140	4.55	20.2	L725520-01	WG747318
1,1-Dichloropropene	mg/kg	0.104	0.107	83.3	57.3-136	2.49	20	L725520-01	WG747318
1,2,3-Trichlorobenzene	mg/kg	0.0781	0.0700	62.5	59.1-138	10.9	23.7	L725520-01	WG747318
1,2,3-Trichloropropane	mg/kg	0.123	0.120	98.6	61.4-128	2.74	22.4	L725520-01	WG747318
1,2,3-Trimethylbenzene	mg/kg	0.0996	0.0975	79.7	61.3-122	2.19	20	L725520-01	WG747318
1,2,4-Trichlorobenzene	mg/kg	0.0790	0.0764	63.2*	63.6-143	3.31	21.9	L725520-01	WG747318
1,2,4-Trimethylbenzene	mg/kg	0.101	0.100	80.9	57.4-137	0.800	20	L725520-01	WG747318
1,2-Dibromo-3-Chloropropane	mg/kg	0.119	0.107	95.4	57.3-136	10.7	27	L725520-01	WG747318
1,2-Dibromoethane	mg/kg	0.119	0.118	95.0	67.1-125	0.320	20	L725520-01	WG747318
1,2-Dichlorobenzene	mg/kg	0.0975	0.0972	78.0	68.2-123	0.370	20	L725520-01	WG747318
1,2-Dichloroethane	mg/kg	0.103	0.104	82.7	60-126	0.460	20	L725520-01	WG747318
1,2-Dichloropropane	mg/kg	0.129	0.137	103.	64.2-123	6.45	20	L725520-01	WG747318
1,3,5-Trimethylbenzene	mg/kg	0.102	0.102	81.3	63.6-132	0.420	20.5	L725520-01	WG747318
1,3-Dichlorobenzene	mg/kg	0.103	0.102	82.7	63.1-131	1.06	20	L725520-01	WG747318
1,3-Dichloropropane	mg/kg	0.119	0.120	95.1	67.9-121	0.760	20	L725520-01	WG747318
1,4-Dichlorobenzene	mg/kg	0.0986	0.101	78.9	68.6-123	1.95	20	L725520-01	WG747318
2,2-Dichloropropane	mg/kg	0.115	0.119	92.2	50.5-144	3.50	21.9	L725520-01	WG747318
2-Butanone (MEK)	mg/kg	0.616	0.618	98.5	22.4-138	0.330	27	L725520-01	WG747318
2-Chloroethyl vinyl ether	mg/kg	0.638	0.644	102.	10-155	1.01	40	L725520-01	WG747318
2-Chlorotoluene	mg/kg	0.103	0.106	82.1	63.6-128	2.84	20	L725520-01	WG747318
4-Chlorotoluene	mg/kg	0.100	0.101	80.2	65.7-127	0.720	20	L725520-01	WG747318
4-Methyl-2-pentanone (MIBK)	mg/kg	0.672	0.671	107.	60.8-140	0.0700	25.1	L725520-01	WG747318
Acetone	mg/kg	0.626	0.601	94.5	10-130	4.06	27.9	L725520-01	WG747318
Acrylonitrile	mg/kg	0.678	0.676	108.	49.4-133	0.210	25.3	L725520-01	WG747318
Benzene	mg/kg	0.117	0.121	93.5	54.3-133	3.32	20	L725520-01	WG747318
Bromobenzene	mg/kg	0.102	0.105	81.4	63.9-124	2.61	20	L725520-01	WG747318
Bromodichloromethane	mg/kg	0.110	0.115	88.3	63.9-121	3.74	20	L725520-01	WG747318
Bromoform	mg/kg	0.128	0.125	103.	59.5-134	2.40	20.8	L725520-01	WG747318
Bromomethane	mg/kg	0.142	0.149	113.	41.7-155	5.05	20.5	L725520-01	WG747318
Carbon tetrachloride	mg/kg	0.110	0.111	87.6	55.7-134	1.44	20.3	L725520-01	WG747318
Chlorobenzene	mg/kg	0.111	0.114	88.5	67-125	3.37	20	L725520-01	WG747318

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Chlorodibromomethane	mg/kg	0.118	0.119	94.3	64.3-125	0.990	20	L725520-01	WG747318
Chloroethane	mg/kg	0.122	0.123	97.9	51.5-136	0.290	20.8	L725520-01	WG747318
Chloroform	mg/kg	0.108	0.111	86.0	63-129	2.77	20	L725520-01	WG747318
Chloromethane	mg/kg	0.127	0.131	102.	42.4-135	3.03	20	L725520-01	WG747318
cis-1,2-Dichloroethene	mg/kg	0.113	0.120	90.6	59.2-129	6.10	20	L725520-01	WG747318
cis-1,3-Dichloropropene	mg/kg	0.120	0.126	96.4	66.4-125	4.27	20	L725520-01	WG747318
Di-isopropyl ether	mg/kg	0.122	0.122	97.4	56.9-136	0.230	20	L725520-01	WG747318
Dibromomethane	mg/kg	0.121	0.124	97.1	68.2-124	1.86	20	L725520-01	WG747318
Dichlorodifluoromethane	mg/kg	0.105	0.110	84.3	40.6-144	3.97	20.2	L725520-01	WG747318
Ethylbenzene	mg/kg	0.111	0.115	88.8	61.4-133	3.11	20	L725520-01	WG747318
Hexachloro-1,3-butadiene	mg/kg	0.0674	0.0627	53.9*	55.1-136	7.31	23.6	L725520-01	WG747318
Isopropylbenzene	mg/kg	0.104	0.104	83.4	66.8-141	0.210	20	L725520-01	WG747318
Methyl tert-butyl ether	mg/kg	0.116	0.118	92.7	57.7-134	1.41	20	L725520-01	WG747318
Methylene Chloride	mg/kg	0.110	0.111	87.5	58.1-122	1.37	20	L725520-01	WG747318
n-Butylbenzene	mg/kg	0.0848	0.0836	67.9	62.7-140	1.41	20	L725520-01	WG747318
n-Propylbenzene	mg/kg	0.100	0.0971	80.1	10-176	2.97	26.6	L725520-01	WG747318
Naphthalene	mg/kg	0.0887	0.0765	71.0	58-135	14.8	25.5	L725520-01	WG747318
p-Isopropyltoluene	mg/kg	0.0959	0.0926	76.7	63.2-139	3.57	20.4	L725520-01	WG747318
sec-Butylbenzene	mg/kg	0.0937	0.0890	75.0	62.2-136	5.14	20.3	L725520-01	WG747318
Styrene	mg/kg	0.113	0.117	90.2	66.8-133	3.57	20	L725520-01	WG747318
tert-Butylbenzene	mg/kg	0.0997	0.0973	79.7	63.3-134	2.39	20.3	L725520-01	WG747318
Tetrachloroethene	mg/kg	0.114	0.118	91.4	53-139	3.01	20	L725520-01	WG747318
Toluene	mg/kg	0.117	0.121	93.6	61.4-130	3.66	20	L725520-01	WG747318
trans-1,2-Dichloroethene	mg/kg	0.106	0.114	84.8	56.5-129	7.19	20	L725520-01	WG747318
trans-1,3-Dichloropropene	mg/kg	0.123	0.133	98.8	64.1-128	7.15	20	L725520-01	WG747318
Trichloroethene	mg/kg	0.117	0.119	93.9	44.1-149	1.24	20	L725520-01	WG747318
Trichlorofluoromethane	mg/kg	0.105	0.109	84.1	49.6-145	3.26	21.2	L725520-01	WG747318
Vinyl chloride	mg/kg	0.124	0.128	99.2	47.8-137	2.96	20	L725520-01	WG747318
Xylenes, Total	mg/kg	0.333	0.339	88.9	63.3-131	1.78	20	L725520-01	WG747318
4-Bromofluorobenzene				92.60	71-126				WG747318
Dibromofluoromethane				94.50	78.3-121				WG747318
Toluene-d8				101.0	88.5-111				WG747318

Batch number /Run number / Sample number cross reference

WG746475: R2994810: L724975-01 02 03 05 06 07 08 09 10
WG746591: R2995132: L724975-11 12 13 14 15 16 17 18 19
WG746251: R2995194: L724975-04 20
WG746295: R2995835: L724975-01 02 03 05 06 08 09 10 11 12 13 14 15 16 17 18 19
WG747318: R2996090: L724975-07

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L724975

October 08, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

1216 Fourth Ave., Suite 1350
Seattle, WA 98161

Billing Information:

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

Report to: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected:

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

Client Project # 1358.001.01.009

Lab Project # PESENVSWA-135800101

Collected by (print): Johnna Ellis

Site/Facility ID # NORMADY PARK, WA

P.O. # 1358.001.01.009

Collected by (signature): Johnna Ellis

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4oz Clr-NoPres	V8260 40ml/NaHSO4/5yr/MeOH	V8260- Trip Blank 40ml Amb-HCl-Blk								Sample # (lab only)
AS-18	G	SS	3'	9/29/14	9:15	4	X	X									-01
AS-17	G	SS	3'	9/29/14	10:00	4	X	X									02
AS-19	G	SS	3'	9/29/14	10:40	4	X	X									03
TRIP BLANK		GW				1			X								04
AS-20	G	SS	3'	9/29/14	11:25	4	X	X									05
AS-16	G	SS	3'	9/29/14	12:00	4	X	X									06
AS-15	G	SS	3'	9/29/14	13:20	4	X	X									07
AS-14	G	SS	3'	9/29/14	14:10	4	X	X									08
AS-8-3.5'	G	SS	3.5'	9/30/14	0855	4	X	X									09
AS-9-3'	G	SS	3'	9/13/14	0930	4	X	X									10

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Relinquished by: (Signature) Johnna Ellis — Date: 9/30/14 — Time: 1700

Received by: (Signature)

Relinquished by: (Signature) — Date: — Time:

Received by: (Signature) 6089 7181 1906

Relinquished by: (Signature) — Date: — Time:

Received for lab by: (Signature) — Date: 10/01/14 — Time: 0900

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ ___

Temp: 2.1 °C Bottles Received: 37

Hold #

Condition: (lab use only) 101

COC Seal Intact: ___Y ___N X NA

pH Checked: ___ NCF: ___

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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

L# L704975

H237

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483981
TSR: 358 - Jarred Willis
PB:

Shipped Via: FedEx Ground

Rem./Contaminant

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: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVRC in Normandy Park, WA

City/State Collected:

Phone: [redacted]
Fax: [redacted]

Client Project # 1358.001.01.005 009

Lab Project # PESENVSWA-135800101

Collected by (print): Jo Anne Ellis

Site/Facility ID # NORMADY PARK, WA

P.O. # 1358.001.01.009

Collected by (signature): Jo Anne Ellis

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	VS260- Trip Blank 40ml/Amb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-27-3'	G	SS	3'	9/30/14	1020	4	X	X			-11
AS-26-3'	G	SS	3'	9/30/14	11:00	4	X	X			12
AS-26-8'	G	SS	8'	9/30/14	11:10	4	X	X			13
SVE-16-3'	G	SS	3'	9/30/14	11:40	4	X	X			14
AS-23-3'	G	SS	3	9/30/14	13:00	4	X	X			15
AS-23-8'	G	SS	8	9/30/14	13:10	4	X	X			16
SVE-14-3.5	G	SS	3.5	9/30/14	13:50	4	X	X			17
SVE-24-3'	G	SS	3'	9/30/14	14:15	4	X	X			18
SVE-24-8'	G	SS	8'	9/30/14	14:25	4	X	X			19
Trip	—	~~SS~~	—	TB	—	4	X	X	X		20

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Jo Anne Ellis	9/30/14	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
			GOBG 71 Ek 160CY
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			[illegible]

Samples returned via: X FedEx ☐ Courier ☐ _____

Temp: 3.1 °C Bottles Received: 41

Date: 10/01/14 Time: 0900

Hold #

Condition: (lab use only) SW5

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L# L724975

Table #

Acctnum: PESENVSWA

Template: T97039

Prelogin: P483981

TSR: 358 - Jarred Willis

PB:

Shipped Via: FedEX Ground

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Matt Dahl
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1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Tuesday October 07, 2014

Report Number: L725127
Samples Received: 10/02/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-19-5

Collected By : Chris DeBoer
Collection Date : 09/29/14 13:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.4		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	10/06/14	1.07
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Benzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromoform	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromomethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chloroethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/06/14	1.07
Chloroform	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
Chloromethane	BDL	0.0028	mg/kg	8260B	10/06/14	1.07
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-19-5

Collected By : Chris DeBoer
Collection Date : 09/29/14 13:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Naphthalene	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Styrene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Toluene	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/06/14	1.07
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/06/14	1.07
Surrogate Recovery						
Toluene-d8	111.		% Rec.	8260B	10/06/14	1.07
Dibromofluoromethane	98.1		% Rec.	8260B	10/06/14	1.07
4-Bromofluorobenzene	101.		% Rec.	8260B	10/06/14	1.07

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-5-15

Collected By : Chris DeBoer
Collection Date : 09/30/14 08:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.7		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0053	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-5-15

Collected By : Chris DeBoer
Collection Date : 09/30/14 08:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0053	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Tetrachloroethene	0.0040	0.0010	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	111.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	101.		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	102.		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-4-5

Collected By : Chris DeBoer
Collection Date : 09/30/14 13:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.0		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0052	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0052	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0052	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-4-5

Collected By : Chris DeBoer
Collection Date : 09/30/14 13:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0052	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Tetrachloroethene	0.0011	0.0010	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0052	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	111.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	97.2		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	101.		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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October 07,2014

ESC Sample # : L725127-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-3-10

Collected By : Chris DeBoer
Collection Date : 10/01/14 09:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.5		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.051	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0051	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0051	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.051	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0051	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0051	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0051	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-3-10

Collected By : Chris DeBoer
Collection Date : 10/01/14 09:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0051	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0051	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Tetrachloroethene	0.0010	0.0010	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0051	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0051	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	112.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	98.9		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	99.3		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/29/14 00:00

ESC Sample # : L725127-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	10/04/14	1
Acrolein	BDL	50.	ug/l	8260B	10/04/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	10/04/14	1
Benzene	BDL	1.0	ug/l	8260B	10/04/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	10/04/14	1
Bromoform	BDL	1.0	ug/l	8260B	10/04/14	1
Bromomethane	BDL	5.0	ug/l	8260B	10/04/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	10/04/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	10/04/14	1
Chloroethane	BDL	5.0	ug/l	8260B	10/04/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	10/04/14	1
Chloroform	BDL	5.0	ug/l	8260B	10/04/14	1
Chloromethane	BDL	2.5	ug/l	8260B	10/04/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	10/04/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	10/04/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	10/04/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	10/04/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	10/04/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	10/04/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/04/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/04/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/04/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	10/04/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	10/04/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/04/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/04/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/04/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	10/04/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	10/04/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	10/04/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725127-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/29/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	10/04/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	10/04/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	10/04/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	10/04/14	1
Naphthalene	BDL	5.0	ug/l	8260B	10/04/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Styrene	BDL	1.0	ug/l	8260B	10/04/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	10/04/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	10/04/14	1
Toluene	BDL	5.0	ug/l	8260B	10/04/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	10/04/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	10/04/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	10/04/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	10/04/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/04/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	10/04/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	10/04/14	1
Surrogate Recovery						
Toluene-d8	107.		% Rec.	8260B	10/04/14	1
Dibromofluoromethane	99.7		% Rec.	8260B	10/04/14	1
4-Bromofluorobenzene	101.		% Rec.	8260B	10/04/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L725127-04	WG746509	SAMP	Toluene-d8	R2995490	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/07/14 at 08:12:38

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L725127-01 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/07/14 08:12

Sample: L725127-02 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/07/14 08:12

Sample: L725127-03 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/07/14 08:12

Sample: L725127-04 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/07/14 08:12

Sample: L725127-05 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/07/14 08:12

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Matt Dahl
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG746696	10/05/14 16:44
Total Solids	< .1	%			WG746695	10/05/14 16:48
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,1-Trichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2-Trichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trichloropropane	< .0025	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746509	10/06/14 11:29
1,2-Dibromoethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,3-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,3-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
1,4-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
2,2-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
2-Butanone (MEK)	< .01	mg/kg			WG746509	10/06/14 11:29
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746509	10/06/14 11:29
2-Chlorotoluene	< .001	mg/kg			WG746509	10/06/14 11:29
4-Chlorotoluene	< .001	mg/kg			WG746509	10/06/14 11:29
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746509	10/06/14 11:29
Acetone	< .05	mg/kg			WG746509	10/06/14 11:29
Acrylonitrile	< .01	mg/kg			WG746509	10/06/14 11:29
Benzene	< .001	mg/kg			WG746509	10/06/14 11:29
Bromobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Bromodichloromethane	< .001	mg/kg			WG746509	10/06/14 11:29
Bromoform	< .001	mg/kg			WG746509	10/06/14 11:29
Bromomethane	< .005	mg/kg			WG746509	10/06/14 11:29
Carbon tetrachloride	< .001	mg/kg			WG746509	10/06/14 11:29
Chlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Chlorodibromomethane	< .001	mg/kg			WG746509	10/06/14 11:29
Chloroethane	< .005	mg/kg			WG746509	10/06/14 11:29
Chloroform	< .005	mg/kg			WG746509	10/06/14 11:29
Chloromethane	< .0025	mg/kg			WG746509	10/06/14 11:29
cis-1,2-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
cis-1,3-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
Di-isopropyl ether	< .001	mg/kg			WG746509	10/06/14 11:29
Dibromomethane	< .001	mg/kg			WG746509	10/06/14 11:29
Dichlorodifluoromethane	< .005	mg/kg			WG746509	10/06/14 11:29
Ethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746509	10/06/14 11:29
Isopropylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Methyl tert-butyl ether	< .001	mg/kg			WG746509	10/06/14 11:29
Methylene Chloride	< .005	mg/kg			WG746509	10/06/14 11:29
n-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
n-Propylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Naphthalene	< .005	mg/kg			WG746509	10/06/14 11:29
p-Isopropyltoluene	< .001	mg/kg			WG746509	10/06/14 11:29
sec-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Styrene	< .001	mg/kg			WG746509	10/06/14 11:29
tert-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Tetrachloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
Toluene	< .005	mg/kg			WG746509	10/06/14 11:29
trans-1,2-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
trans-1,3-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
Trichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
Trichlorofluoromethane	< .005	mg/kg			WG746509	10/06/14 11:29
Vinyl chloride	< .001	mg/kg			WG746509	10/06/14 11:29
Xylenes, Total	< .003	mg/kg			WG746509	10/06/14 11:29
4-Bromofluorobenzene		% Rec.	104.0	71-126	WG746509	10/06/14 11:29
Dibromofluoromethane		% Rec.	98.20	78.3-121	WG746509	10/06/14 11:29
Toluene-d8		% Rec.	108.0	88.5-111	WG746509	10/06/14 11:29
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,1-Trichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2-Trichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,4-Trichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,4-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG746491	10/04/14 21:41
1,2-Dibromoethane	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,3,5-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,3-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,3-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,4-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
2,2-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
2-Butanone (MEK)	< .01	mg/l			WG746491	10/04/14 21:41
2-Chloroethyl vinyl ether	< .05	mg/l			WG746491	10/04/14 21:41
2-Chlorotoluene	< .001	mg/l			WG746491	10/04/14 21:41
4-Chlorotoluene	< .001	mg/l			WG746491	10/04/14 21:41
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG746491	10/04/14 21:41
Acetone	< .05	mg/l			WG746491	10/04/14 21:41
Acrolein	< .025	mg/l			WG746491	10/04/14 21:41
Acrylonitrile	< .01	mg/l			WG746491	10/04/14 21:41
Benzene	< .001	mg/l			WG746491	10/04/14 21:41
Bromobenzene	< .001	mg/l			WG746491	10/04/14 21:41
Bromodichloromethane	< .001	mg/l			WG746491	10/04/14 21:41
Bromoform	< .001	mg/l			WG746491	10/04/14 21:41
Bromomethane	< .005	mg/l			WG746491	10/04/14 21:41
Carbon tetrachloride	< .001	mg/l			WG746491	10/04/14 21:41
Chlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
Chlorodibromomethane	< .001	mg/l			WG746491	10/04/14 21:41
Chloroethane	< .005	mg/l			WG746491	10/04/14 21:41
Chloroform	< .005	mg/l			WG746491	10/04/14 21:41

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Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Chloromethane	< .0025	mg/l			WG746491	10/04/14 21:41
cis-1,2-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
cis-1,3-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41
Di-isopropyl ether	< .001	mg/l			WG746491	10/04/14 21:41
Dibromomethane	< .001	mg/l			WG746491	10/04/14 21:41
Dichlorodifluoromethane	< .005	mg/l			WG746491	10/04/14 21:41
Ethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Hexachloro-1,3-butadiene	< .001	mg/l			WG746491	10/04/14 21:41
Isopropylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Methyl tert-butyl ether	< .001	mg/l			WG746491	10/04/14 21:41
Methylene Chloride	< .005	mg/l			WG746491	10/04/14 21:41
n-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
n-Propylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Naphthalene	< .005	mg/l			WG746491	10/04/14 21:41
p-Isopropyltoluene	< .001	mg/l			WG746491	10/04/14 21:41
sec-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Styrene	< .001	mg/l			WG746491	10/04/14 21:41
tert-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Tetrachloroethene	< .001	mg/l			WG746491	10/04/14 21:41
Toluene	< .005	mg/l			WG746491	10/04/14 21:41
trans-1,2-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
trans-1,3-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41
Trichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
Trichlorofluoromethane	< .005	mg/l			WG746491	10/04/14 21:41
Vinyl chloride	< .001	mg/l			WG746491	10/04/14 21:41
Xylenes, Total	< .003	mg/l			WG746491	10/04/14 21:41
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG746491	10/04/14 21:41
Dibromofluoromethane		% Rec.	99.90	78.3-121	WG746491	10/04/14 21:41
Toluene-d8		% Rec.	107.0	88.5-111	WG746491	10/04/14 21:41

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	79.0	79.4	0.560	5	L725155-01	WG746696
Total Solids	%	86.6	86.0	0.587	5	L725117-08	WG746695

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG746696
Total Solids	%	50	50.0	100.	85-115	WG746695
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0240	96.1	72.9-124	WG746509
1,1,1-Trichloroethane	mg/kg	.025	0.0226	90.5	73.7-124	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0241	96.3	69.4-122	WG746509
1,1,2-Trichloroethane	mg/kg	.025	0.0259	104.	79.1-118	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0246	98.3	70-146	WG746509
1,1-Dichloroethane	mg/kg	.025	0.0216	86.5	75-124	WG746509
1,1-Dichloroethene	mg/kg	.025	0.0234	93.6	70.4-129	WG746509
1,1-Dichloropropene	mg/kg	.025	0.0233	93.2	74.9-124	WG746509
1,2,3-Trichlorobenzene	mg/kg	.025	0.0236	94.2	69.3-131	WG746509
1,2,3-Trichloropropane	mg/kg	.025	0.0225	89.8	71.4-123	WG746509
1,2,3-Trimethylbenzene	mg/kg	.025	0.0252	101.	73.6-113	WG746509
1,2,4-Trichlorobenzene	mg/kg	.025	0.0245	97.9	71.9-137	WG746509

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Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2,4-Trimethylbenzene	mg/kg	.025	0.0246	98.3	75.5-122	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0230	91.9	62.8-133	WG746509
1,2-Dibromoethane	mg/kg	.025	0.0240	96.0	78.6-120	WG746509
1,2-Dichlorobenzene	mg/kg	.025	0.0263	105.	78.3-118	WG746509
1,2-Dichloroethane	mg/kg	.025	0.0225	89.9	70.1-124	WG746509
1,2-Dichloropropane	mg/kg	.025	0.0224	89.5	77.9-119	WG746509
1,3,5-Trimethylbenzene	mg/kg	.025	0.0249	99.8	75.9-124	WG746509
1,3-Dichlorobenzene	mg/kg	.025	0.0260	104.	72-126	WG746509
1,3-Dichloropropane	mg/kg	.025	0.0235	94.1	79.1-117	WG746509
1,4-Dichlorobenzene	mg/kg	.025	0.0265	106.	78.3-117	WG746509
2,2-Dichloropropane	mg/kg	.025	0.0203	81.3	61.3-136	WG746509
2-Butanone (MEK)	mg/kg	.125	0.0974	77.9	53.7-153	WG746509
2-Chloroethyl vinyl ether	mg/kg	.125	0.114	91.3	37.7-157	WG746509
2-Chlorotoluene	mg/kg	.025	0.0253	101.	75.6-121	WG746509
4-Chlorotoluene	mg/kg	.025	0.0252	101.	77.3-120	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.102	81.3	70.4-137	WG746509
Acetone	mg/kg	.125	0.0945	75.6	35.1-175	WG746509
Acrylonitrile	mg/kg	.125	0.105	84.1	56.4-128	WG746509
Benzene	mg/kg	.025	0.0228	91.1	77.1-121	WG746509
Bromobenzene	mg/kg	.025	0.0246	98.4	78.2-115	WG746509
Bromodichloromethane	mg/kg	.025	0.0229	91.7	74.9-115	WG746509
Bromoform	mg/kg	.025	0.0246	98.3	65.9-132	WG746509
Bromomethane	mg/kg	.025	0.0325	130.	48.7-165	WG746509
Carbon tetrachloride	mg/kg	.025	0.0223	89.0	70-124	WG746509
Chlorobenzene	mg/kg	.025	0.0249	99.6	79.1-119	WG746509
Chlorodibromomethane	mg/kg	.025	0.0235	94.1	73.5-121	WG746509
Chloroethane	mg/kg	.025	0.0259	104.	66.2-132	WG746509
Chloroform	mg/kg	.025	0.0225	89.8	76.7-122	WG746509
Chloromethane	mg/kg	.025	0.0222	88.9	63.4-131	WG746509
cis-1,2-Dichloroethene	mg/kg	.025	0.0231	92.4	78.2-119	WG746509
cis-1,3-Dichloropropene	mg/kg	.025	0.0229	91.7	79.6-120	WG746509
Di-isopropyl ether	mg/kg	.025	0.0217	86.8	70.4-133	WG746509
Dibromomethane	mg/kg	.025	0.0219	87.6	79.4-120	WG746509
Dichlorodifluoromethane	mg/kg	.025	0.0250	100.	57.1-137	WG746509
Ethylbenzene	mg/kg	.025	0.0256	102.	79.7-122	WG746509
Hexachloro-1,3-butadiene	mg/kg	.025	0.0246	98.4	68.2-123	WG746509
Isopropylbenzene	mg/kg	.025	0.0252	101.	80-135	WG746509
Methyl tert-butyl ether	mg/kg	.025	0.0216	86.6	73-129	WG746509
Methylene Chloride	mg/kg	.025	0.0205	82.0	72.6-120	WG746509
n-Butylbenzene	mg/kg	.025	0.0261	104.	77.5-126	WG746509
n-Propylbenzene	mg/kg	.025	0.0254	102.	77.9-123	WG746509
Naphthalene	mg/kg	.025	0.0232	92.8	69.8-128	WG746509
p-Isopropyltoluene	mg/kg	.025	0.0249	99.7	75.8-129	WG746509
sec-Butylbenzene	mg/kg	.025	0.0257	103.	75.8-126	WG746509
Styrene	mg/kg	.025	0.0256	103.	82.4-126	WG746509
tert-Butylbenzene	mg/kg	.025	0.0248	99.4	76.4-126	WG746509
Tetrachloroethene	mg/kg	.025	0.0278	111.	73.9-125	WG746509
Toluene	mg/kg	.025	0.0235	93.9	79.7-118	WG746509
trans-1,2-Dichloroethene	mg/kg	.025	0.0229	91.7	73.8-122	WG746509
trans-1,3-Dichloropropene	mg/kg	.025	0.0215	85.9	75.9-124	WG746509
Trichloroethene	mg/kg	.025	0.0248	99.4	77.9-118	WG746509
Trichlorofluoromethane	mg/kg	.025	0.0246	98.5	67.7-131	WG746509
Vinyl chloride	mg/kg	.025	0.0247	98.7	66.7-130	WG746509
Xylenes, Total	mg/kg	.075	0.0760	101.	78.8-121	WG746509
4-Bromofluorobenzene				101.0	71-126	WG746509
Dibromofluoromethane				97.70	78.3-121	WG746509
Toluene-d8				105.0	88.5-111	WG746509

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Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0255	102.	74.2-124	WG746491
1,1,1-Trichloroethane	mg/l	.025	0.0247	98.7	73.2-123	WG746491
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0228	91.3	70.7-122	WG746491
1,1,2-Trichloroethane	mg/l	.025	0.0239	95.6	77.7-118	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0245	97.9	67.2-143	WG746491
1,1-Dichloroethane	mg/l	.025	0.0235	93.8	70.7-126	WG746491
1,1-Dichloroethene	mg/l	.025	0.0225	90.2	67.8-129	WG746491
1,1-Dichloropropene	mg/l	.025	0.0241	96.3	73.1-125	WG746491
1,2,3-Trichlorobenzene	mg/l	.025	0.0210	83.8	64.9-135	WG746491
1,2,3-Trichloropropane	mg/l	.025	0.0242	96.9	71.8-121	WG746491
1,2,3-Trimethylbenzene	mg/l	.025	0.0228	91.2	72.3-116	WG746491
1,2,4-Trichlorobenzene	mg/l	.025	0.0215	86.1	69.7-136	WG746491
1,2,4-Trimethylbenzene	mg/l	.025	0.0251	100.	75-123	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0192	76.7	65.4-128	WG746491
1,2-Dibromoethane	mg/l	.025	0.0249	99.5	76.6-121	WG746491
1,2-Dichlorobenzene	mg/l	.025	0.0241	96.3	78.4-117	WG746491
1,2-Dichloroethane	mg/l	.025	0.0245	97.9	68.8-124	WG746491
1,2-Dichloropropane	mg/l	.025	0.0241	96.4	76.5-119	WG746491
1,3,5-Trimethylbenzene	mg/l	.025	0.0257	103.	75.6-124	WG746491
1,3-Dichlorobenzene	mg/l	.025	0.0266	106.	70.8-128	WG746491
1,3-Dichloropropane	mg/l	.025	0.0231	92.4	77.4-117	WG746491
1,4-Dichlorobenzene	mg/l	.025	0.0233	93.2	78.8-115	WG746491
2,2-Dichloropropane	mg/l	.025	0.0251	100.	62.4-133	WG746491
2-Butanone (MEK)	mg/l	.125	0.0945	75.6	55-149	WG746491
2-Chloroethyl vinyl ether	mg/l	.125	0.119	95.1	43.8-150	WG746491
2-Chlorotoluene	mg/l	.025	0.0262	105.	74.7-122	WG746491
4-Chlorotoluene	mg/l	.025	0.0242	96.7	77.5-120	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.104	83.4	70.5-133	WG746491
Acetone	mg/l	.125	0.0983	78.6	35.6-163	WG746491
Acrolein	mg/l	.125	0.109	87.3	10-190	WG746491
Acrylonitrile	mg/l	.125	0.102	81.2	55.2-130	WG746491
Benzene	mg/l	.025	0.0241	96.3	74.8-121	WG746491
Bromobenzene	mg/l	.025	0.0237	94.8	77.5-116	WG746491
Bromodichloromethane	mg/l	.025	0.0243	97.1	75.1-116	WG746491
Bromoform	mg/l	.025	0.0244	97.7	67.5-130	WG746491
Bromomethane	mg/l	.025	0.0243	97.3	49.9-162	WG746491
Carbon tetrachloride	mg/l	.025	0.0233	93.4	70.2-123	WG746491
Chlorobenzene	mg/l	.025	0.0250	99.9	78.1-119	WG746491
Chlorodibromomethane	mg/l	.025	0.0246	98.3	74-121	WG746491
Chloroethane	mg/l	.025	0.0218	87.2	61.7-135	WG746491
Chloroform	mg/l	.025	0.0236	94.4	76-121	WG746491
Chloromethane	mg/l	.025	0.0205	82.0	61.5-129	WG746491
cis-1,2-Dichloroethene	mg/l	.025	0.0250	99.9	76-119	WG746491
cis-1,3-Dichloropropene	mg/l	.025	0.0243	97.0	78.2-120	WG746491
Di-isopropyl ether	mg/l	.025	0.0216	86.6	65.6-132	WG746491
Dibromomethane	mg/l	.025	0.0247	98.9	79.5-118	WG746491
Dichlorodifluoromethane	mg/l	.025	0.0210	84.2	54.8-135	WG746491
Ethylbenzene	mg/l	.025	0.0253	101.	78.8-122	WG746491
Hexachloro-1,3-butadiene	mg/l	.025	0.0234	93.6	64.7-129	WG746491
Isopropylbenzene	mg/l	.025	0.0254	102.	78.6-132	WG746491
Methyl tert-butyl ether	mg/l	.025	0.0240	95.9	71.2-126	WG746491
Methylene Chloride	mg/l	.025	0.0225	90.1	70.3-120	WG746491
n-Butylbenzene	mg/l	.025	0.0230	92.2	76.2-126	WG746491
n-Propylbenzene	mg/l	.025	0.0250	99.9	78.2-122	WG746491
Naphthalene	mg/l	.025	0.0196	78.6	68.4-128	WG746491
p-Isopropyltoluene	mg/l	.025	0.0264	106.	74-131	WG746491
sec-Butylbenzene	mg/l	.025	0.0259	104.	74.4-127	WG746491
Styrene	mg/l	.025	0.0247	98.8	80.4-126	WG746491
tert-Butylbenzene	mg/l	.025	0.0265	106.	75.3-126	WG746491

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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Tetrachloroethene	mg/l	.025	0.0262	105.	72.6-126	WG746491
Toluene	mg/l	.025	0.0240	96.1	79.7-116	WG746491
trans-1,2-Dichloroethene	mg/l	.025	0.0236	94.3	72.6-121	WG746491
trans-1,3-Dichloropropene	mg/l	.025	0.0230	92.0	74.3-123	WG746491
Trichloroethene	mg/l	.025	0.0268	107.	77.7-118	WG746491
Trichlorofluoromethane	mg/l	.025	0.0246	98.4	63.5-135	WG746491
Vinyl chloride	mg/l	.025	0.0228	91.2	65.9-128	WG746491
Xylenes, Total	mg/l	.075	0.0766	102.	78.7-121	WG746491
4-Bromofluorobenzene				102.0	71-126	WG746491
Dibromofluoromethane				99.90	78.3-121	WG746491
Toluene-d8				105.0	88.5-111	WG746491

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0237	0.0240	95.0	72.9-124	1.19	20	WG746509
1,1,1-Trichloroethane	mg/kg	0.0222	0.0226	89.0	73.7-124	1.73	20	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.0236	0.0241	94.0	69.4-122	2.14	20	WG746509
1,1,2-Trichloroethane	mg/kg	0.0250	0.0259	100.	79.1-118	3.79	20	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0236	0.0246	94.0	70-146	4.16	20	WG746509
1,1-Dichloroethane	mg/kg	0.0210	0.0216	84.0	75-124	3.07	20	WG746509
1,1-Dichloroethene	mg/kg	0.0218	0.0234	87.0	70.4-129	6.89	20	WG746509
1,1-Dichloropropene	mg/kg	0.0219	0.0233	88.0	74.9-124	6.06	20	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.0239	0.0236	96.0	69.3-131	1.48	20	WG746509
1,2,3-Trichloropropane	mg/kg	0.0214	0.0225	86.0	71.4-123	4.59	20	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.0244	0.0252	97.0	73.6-113	3.34	20	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.0246	0.0245	98.0	71.9-137	0.440	20	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.0243	0.0246	97.0	75.5-122	1.21	20	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0230	88.0	62.8-133	3.73	20	WG746509
1,2-Dibromoethane	mg/kg	0.0234	0.0240	93.0	78.6-120	2.67	20	WG746509
1,2-Dichlorobenzene	mg/kg	0.0258	0.0263	103.	78.3-118	1.74	20	WG746509
1,2-Dichloroethane	mg/kg	0.0219	0.0225	88.0	70.1-124	2.59	20	WG746509
1,2-Dichloropropane	mg/kg	0.0213	0.0224	85.0	77.9-119	5.00	20	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.0244	0.0249	97.0	75.9-124	2.32	20	WG746509
1,3-Dichlorobenzene	mg/kg	0.0253	0.0260	101.	72-126	2.78	20	WG746509
1,3-Dichloropropane	mg/kg	0.0229	0.0235	92.0	79.1-117	2.72	20	WG746509
1,4-Dichlorobenzene	mg/kg	0.0250	0.0265	100.	78.3-117	5.81	20	WG746509
2,2-Dichloropropane	mg/kg	0.0205	0.0203	82.0	61.3-136	0.660	20	WG746509
2-Butanone (MEK)	mg/kg	0.0918	0.0974	73.0	53.7-153	5.86	21.2	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.104	0.114	84.0	37.7-157	8.90	20	WG746509
2-Chlorotoluene	mg/kg	0.0245	0.0253	98.0	75.6-121	3.23	20	WG746509
4-Chlorotoluene	mg/kg	0.0244	0.0252	98.0	77.3-120	3.13	20	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.0971	0.102	78.0	70.4-137	4.51	20	WG746509
Acetone	mg/kg	0.0871	0.0945	70.0	35.1-175	8.05	26.1	WG746509
Acrylonitrile	mg/kg	0.101	0.105	80.0	56.4-128	4.33	20	WG746509
Benzene	mg/kg	0.0216	0.0228	86.0	77.1-121	5.12	20	WG746509
Bromobenzene	mg/kg	0.0237	0.0246	95.0	78.2-115	3.56	20	WG746509
Bromodichloromethane	mg/kg	0.0224	0.0229	90.0	74.9-115	2.27	20	WG746509
Bromoform	mg/kg	0.0236	0.0246	94.0	65.9-132	3.89	20	WG746509
Bromomethane	mg/kg	0.0310	0.0325	124.	48.7-165	4.68	20	WG746509
Carbon tetrachloride	mg/kg	0.0214	0.0223	86.0	70-124	3.98	20	WG746509
Chlorobenzene	mg/kg	0.0240	0.0249	96.0	79.1-119	3.68	20	WG746509
Chlorodibromomethane	mg/kg	0.0225	0.0235	90.0	73.5-121	4.27	20	WG746509
Chloroethane	mg/kg	0.0256	0.0259	102.	66.2-132	1.13	20	WG746509
Chloroform	mg/kg	0.0216	0.0225	86.0	76.7-122	3.90	20	WG746509
Chloromethane	mg/kg	0.0206	0.0222	82.0	63.4-131	7.56	20	WG746509
cis-1,2-Dichloroethene	mg/kg	0.0224	0.0231	90.0	78.2-119	3.21	20	WG746509
cis-1,3-Dichloropropene	mg/kg	0.0217	0.0229	87.0	79.6-120	5.43	20	WG746509
Di-isopropyl ether	mg/kg	0.0211	0.0217	84.0	70.4-133	2.90	20	WG746509

* Performance of this Analyte is outside of established criteria.
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Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Dibromomethane	mg/kg	0.0213	0.0219	85.0	79.4-120	3.03	20	WG746509
Dichlorodifluoromethane	mg/kg	0.0230	0.0250	92.0	57.1-137	8.50	20	WG746509
Ethylbenzene	mg/kg	0.0249	0.0256	100.	79.7-122	2.85	20	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.0245	0.0246	98.0	68.2-123	0.340	20	WG746509
Isopropylbenzene	mg/kg	0.0244	0.0252	98.0	80-135	3.13	20	WG746509
Methyl tert-butyl ether	mg/kg	0.0212	0.0216	85.0	73-129	1.93	20	WG746509
Methylene Chloride	mg/kg	0.0199	0.0205	79.0	72.6-120	3.13	20	WG746509
n-Butylbenzene	mg/kg	0.0249	0.0261	100.	77.5-126	4.55	20	WG746509
n-Propylbenzene	mg/kg	0.0243	0.0254	97.0	77.9-123	4.54	20	WG746509
Naphthalene	mg/kg	0.0232	0.0232	93.0	69.8-128	0.190	20	WG746509
p-Isopropyltoluene	mg/kg	0.0247	0.0249	99.0	75.8-129	1.03	20	WG746509
sec-Butylbenzene	mg/kg	0.0251	0.0257	100.	75.8-126	2.53	20	WG746509
Styrene	mg/kg	0.0249	0.0256	100.	82.4-126	2.86	20	WG746509
tert-Butylbenzene	mg/kg	0.0245	0.0248	98.0	76.4-126	1.49	20	WG746509
Tetrachloroethene	mg/kg	0.0258	0.0278	103.	73.9-125	7.45	20	WG746509
Toluene	mg/kg	0.0220	0.0235	88.0	79.7-118	6.53	20	WG746509
trans-1,2-Dichloroethene	mg/kg	0.0217	0.0229	87.0	73.8-122	5.60	20	WG746509
trans-1,3-Dichloropropene	mg/kg	0.0206	0.0215	82.0	75.9-124	4.20	20	WG746509
Trichloroethene	mg/kg	0.0234	0.0248	93.0	77.9-118	6.08	20	WG746509
Trichlorofluoromethane	mg/kg	0.0245	0.0246	98.0	67.7-131	0.690	20	WG746509
Vinyl chloride	mg/kg	0.0233	0.0247	93.0	66.7-130	5.91	20	WG746509
Xylenes, Total	mg/kg	0.0726	0.0760	97.0	78.8-121	4.58	20	WG746509
4-Bromofluorobenzene				100.0	71-126			WG746509
Dibromofluoromethane				98.60	78.3-121			WG746509
Toluene-d8				109.0	88.5-111			WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0258	0.0255	103.	74.2-124	1.17	20	WG746491
1,1,1-Trichloroethane	mg/l	0.0248	0.0247	99.0	73.2-123	0.430	20	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0231	0.0228	92.0	70.7-122	1.25	20	WG746491
1,1,2-Trichloroethane	mg/l	0.0242	0.0239	97.0	77.7-118	1.11	20	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0248	0.0245	99.0	67.2-143	1.36	20	WG746491
1,1-Dichloroethane	mg/l	0.0235	0.0235	94.0	70.7-126	0.180	20	WG746491
1,1-Dichloroethene	mg/l	0.0228	0.0225	91.0	67.8-129	1.02	20	WG746491
1,1-Dichloropropene	mg/l	0.0239	0.0241	96.0	73.1-125	0.690	20	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0210	0.0210	84.0	64.9-135	0.190	20	WG746491
1,2,3-Trichloropropane	mg/l	0.0257	0.0242	103.	71.8-121	5.76	20	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0228	0.0228	91.0	72.3-116	0.0800	20	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0220	0.0215	88.0	69.7-136	1.96	20	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0259	0.0251	104.	75-123	3.18	20	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0193	0.0192	77.0	65.4-128	0.620	20	WG746491
1,2-Dibromoethane	mg/l	0.0256	0.0249	102.	76.6-121	2.74	20	WG746491
1,2-Dichlorobenzene	mg/l	0.0239	0.0241	96.0	78.4-117	0.780	20	WG746491
1,2-Dichloroethane	mg/l	0.0244	0.0245	98.0	68.8-124	0.300	20	WG746491
1,2-Dichloropropane	mg/l	0.0242	0.0241	97.0	76.5-119	0.500	20	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0259	0.0257	104.	75.6-124	0.970	20	WG746491
1,3-Dichlorobenzene	mg/l	0.0271	0.0266	108.	70.8-128	1.84	20	WG746491
1,3-Dichloropropane	mg/l	0.0242	0.0231	97.0	77.4-117	4.52	20	WG746491
1,4-Dichlorobenzene	mg/l	0.0235	0.0233	94.0	78.8-115	0.910	20	WG746491
2,2-Dichloropropane	mg/l	0.0241	0.0251	96.0	62.4-133	4.00	20	WG746491
2-Butanone (MEK)	mg/l	0.0928	0.0945	74.0	55-149	1.76	20	WG746491
2-Chloroethyl vinyl ether	mg/l	0.120	0.119	96.0	43.8-150	0.870	20	WG746491
2-Chlorotoluene	mg/l	0.0270	0.0262	108.	74.7-122	2.90	20	WG746491
4-Chlorotoluene	mg/l	0.0251	0.0242	100.	77.5-120	3.70	20	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.105	0.104	84.0	70.5-133	0.620	20	WG746491
Acetone	mg/l	0.100	0.0983	80.0	35.6-163	1.78	23.9	WG746491
Acrolein	mg/l	0.108	0.109	87.0	10-190	0.620	28.1	WG746491
Acrylonitrile	mg/l	0.100	0.102	80.0	55.2-130	1.37	20	WG746491
Benzene	mg/l	0.0239	0.0241	96.0	74.8-121	0.560	20	WG746491

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Level II

L725127

October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Bromobenzene	mg/l	0.0243	0.0237	97.0	77.5-116	2.34	20	WG746491
Bromodichloromethane	mg/l	0.0243	0.0243	97.0	75.1-116	0.0800	20	WG746491
Bromoform	mg/l	0.0248	0.0244	99.0	67.5-130	1.65	20	WG746491
Bromomethane	mg/l	0.0231	0.0243	92.0	49.9-162	4.96	20	WG746491
Carbon tetrachloride	mg/l	0.0233	0.0233	93.0	70.2-123	0.0500	20	WG746491
Chlorobenzene	mg/l	0.0259	0.0250	104.	78.1-119	3.81	20	WG746491
Chlorodibromomethane	mg/l	0.0252	0.0246	101.	74-121	2.41	20	WG746491
Chloroethane	mg/l	0.0210	0.0218	84.0	61.7-135	3.85	20	WG746491
Chloroform	mg/l	0.0235	0.0236	94.0	76-121	0.270	20	WG746491
Chloromethane	mg/l	0.0207	0.0205	83.0	61.5-129	0.820	20	WG746491
cis-1,2-Dichloroethene	mg/l	0.0251	0.0250	100.	76-119	0.620	20	WG746491
cis-1,3-Dichloropropene	mg/l	0.0240	0.0243	96.0	78.2-120	1.14	20	WG746491
Di-isopropyl ether	mg/l	0.0217	0.0216	87.0	65.6-132	0.260	20	WG746491
Dibromomethane	mg/l	0.0252	0.0247	101.	79.5-118	1.86	20	WG746491
Dichlorodifluoromethane	mg/l	0.0206	0.0210	82.0	54.8-135	2.35	20	WG746491
Ethylbenzene	mg/l	0.0265	0.0253	106.	78.8-122	4.59	20	WG746491
Hexachloro-1,3-butadiene	mg/l	0.0236	0.0234	94.0	64.7-129	0.840	20	WG746491
Isopropylbenzene	mg/l	0.0262	0.0254	105.	78.6-132	3.27	20	WG746491
Methyl tert-butyl ether	mg/l	0.0238	0.0240	95.0	71.2-126	0.590	20	WG746491
Methylene Chloride	mg/l	0.0227	0.0225	91.0	70.3-120	0.560	20	WG746491
n-Butylbenzene	mg/l	0.0232	0.0230	93.0	76.2-126	0.840	20	WG746491
n-Propylbenzene	mg/l	0.0258	0.0250	103.	78.2-122	3.39	20	WG746491
Naphthalene	mg/l	0.0195	0.0196	78.0	68.4-128	1.00	20	WG746491
p-Isopropyltoluene	mg/l	0.0271	0.0264	108.	74-131	2.41	20	WG746491
sec-Butylbenzene	mg/l	0.0267	0.0259	107.	74.4-127	3.02	20	WG746491
Styrene	mg/l	0.0255	0.0247	102.	80.4-126	3.27	20	WG746491
tert-Butylbenzene	mg/l	0.0270	0.0265	108.	75.3-126	1.51	20	WG746491
Tetrachloroethene	mg/l	0.0271	0.0262	108.	72.6-126	3.52	20	WG746491
Toluene	mg/l	0.0243	0.0240	97.0	79.7-116	1.35	20	WG746491
trans-1,2-Dichloroethene	mg/l	0.0241	0.0236	96.0	72.6-121	2.20	20	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0230	93.0	74.3-123	1.53	20	WG746491
Trichloroethene	mg/l	0.0272	0.0268	109.	77.7-118	1.43	20	WG746491
Trichlorofluoromethane	mg/l	0.0242	0.0246	97.0	63.5-135	1.67	20	WG746491
Vinyl chloride	mg/l	0.0223	0.0228	89.0	65.9-128	2.38	20	WG746491
Xylenes, Total	mg/l	0.0791	0.0766	105.	78.7-121	3.20	20	WG746491
4-Bromofluorobenzene				103.0	71-126			WG746491
Dibromofluoromethane				99.90	78.3-121			WG746491
Toluene-d8				105.0	88.5-111			WG746491

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.124	0.0	.025	99.0	64-128	L725162-06	WG746509
1,1,1-Trichloroethane	mg/kg	0.131	0.0	.025	100.	58.7-134	L725162-06	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.0	.025	100.	56-132	L725162-06	WG746509
1,1,2-Trichloroethane	mg/kg	0.131	0.0	.025	100.	66.3-125	L725162-06	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.141	0.0	.025	110.	54.8-154	L725162-06	WG746509
1,1-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	58.5-132	L725162-06	WG746509
1,1-Dichloroethene	mg/kg	0.128	0.0	.025	100.	51.1-140	L725162-06	WG746509
1,1-Dichloropropene	mg/kg	0.123	0.0	.025	98.0	57.3-136	L725162-06	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.110	0.000847	.025	88.0	59.1-138	L725162-06	WG746509
1,2,3-Trichloropropane	mg/kg	0.117	0.0	.025	94.0	61.4-128	L725162-06	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.128	0.0	.025	100.	61.3-122	L725162-06	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.116	0.0	.025	92.0	63.6-143	L725162-06	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.129	0.0	.025	100.	57.4-137	L725162-06	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.118	0.0	.025	94.0	57.3-136	L725162-06	WG746509
1,2-Dibromoethane	mg/kg	0.122	0.0	.025	98.0	67.1-125	L725162-06	WG746509
1,2-Dichlorobenzene	mg/kg	0.130	0.0	.025	100.	68.2-123	L725162-06	WG746509
1,2-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	60-126	L725162-06	WG746509

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Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/kg	0.115	0.0	.025	92.0	64.2-123	L725162-06	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.131	0.0	.025	100.	63.6-132	L725162-06	WG746509
1,3-Dichlorobenzene	mg/kg	0.129	0.0	.025	100.	63.1-131	L725162-06	WG746509
1,3-Dichloropropane	mg/kg	0.118	0.0	.025	94.0	67.9-121	L725162-06	WG746509
1,4-Dichlorobenzene	mg/kg	0.130	0.0	.025	100.	68.6-123	L725162-06	WG746509
2,2-Dichloropropane	mg/kg	0.125	0.0	.025	100.	50.5-144	L725162-06	WG746509
2-Butanone (MEK)	mg/kg	0.498	0.0	.125	80.0	22.4-138	L725162-06	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.561	0.0	.125	90.0	10-155	L725162-06	WG746509
2-Chlorotoluene	mg/kg	0.132	0.0	.025	110.	63.6-128	L725162-06	WG746509
4-Chlorotoluene	mg/kg	0.129	0.0	.025	100.	65.7-127	L725162-06	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.517	0.0	.125	83.0	60.8-140	L725162-06	WG746509
Acetone	mg/kg	0.539	0.0400	.125	80.0	10-130	L725162-06	WG746509
Acrylonitrile	mg/kg	0.537	0.0	.125	86.0	49.4-133	L725162-06	WG746509
Benzene	mg/kg	0.118	0.0	.025	95.0	54.3-133	L725162-06	WG746509
Bromobenzene	mg/kg	0.127	0.0	.025	100.	63.9-124	L725162-06	WG746509
Bromodichloromethane	mg/kg	0.119	0.0	.025	96.0	63.9-121	L725162-06	WG746509
Bromoform	mg/kg	0.125	0.0	.025	100.	59.5-134	L725162-06	WG746509
Bromomethane	mg/kg	0.170	0.0	.025	140.	41.7-155	L725162-06	WG746509
Carbon tetrachloride	mg/kg	0.123	0.0	.025	98.0	55.7-134	L725162-06	WG746509
Chlorobenzene	mg/kg	0.127	0.0	.025	100.	67-125	L725162-06	WG746509
Chlorodibromomethane	mg/kg	0.119	0.0	.025	95.0	64.3-125	L725162-06	WG746509
Chloroethane	mg/kg	0.144	0.0	.025	120.	51.5-136	L725162-06	WG746509
Chloroform	mg/kg	0.119	0.0	.025	95.0	63-129	L725162-06	WG746509
Chloromethane	mg/kg	0.117	0.0	.025	94.0	42.4-135	L725162-06	WG746509
cis-1,2-Dichloroethene	mg/kg	0.122	0.0	.025	98.0	59.2-129	L725162-06	WG746509
cis-1,3-Dichloropropene	mg/kg	0.115	0.0	.025	92.0	66.4-125	L725162-06	WG746509
Di-isopropyl ether	mg/kg	0.113	0.0	.025	90.0	56.9-136	L725162-06	WG746509
Dibromomethane	mg/kg	0.112	0.0	.025	90.0	68.2-124	L725162-06	WG746509
Dichlorodifluoromethane	mg/kg	0.147	0.0	.025	120.	40.6-144	L725162-06	WG746509
Ethylbenzene	mg/kg	0.133	0.0	.025	110.	61.4-133	L725162-06	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.117	0.0	.025	94.0	55.1-136	L725162-06	WG746509
Isopropylbenzene	mg/kg	0.134	0.0	.025	110.	66.8-141	L725162-06	WG746509
Methyl tert-butyl ether	mg/kg	0.111	0.0	.025	89.0	57.7-134	L725162-06	WG746509
Methylene Chloride	mg/kg	0.111	0.000579	.025	89.0	58.1-122	L725162-06	WG746509
n-Butylbenzene	mg/kg	0.128	0.0	.025	100.	62.7-140	L725162-06	WG746509
n-Propylbenzene	mg/kg	0.134	0.0	.025	110.	10-176	L725162-06	WG746509
Naphthalene	mg/kg	0.110	0.00103	.025	87.0	58-135	L725162-06	WG746509
p-Isopropyltoluene	mg/kg	0.129	0.0	.025	100.	63.2-139	L725162-06	WG746509
sec-Butylbenzene	mg/kg	0.137	0.0	.025	110.	62.2-136	L725162-06	WG746509
Styrene	mg/kg	0.132	0.0	.025	110.	66.8-133	L725162-06	WG746509
tert-Butylbenzene	mg/kg	0.132	0.0	.025	100.	63.3-134	L725162-06	WG746509
Tetrachloroethene	mg/kg	0.143	0.0	.025	110.	53-139	L725162-06	WG746509
Toluene	mg/kg	0.122	0.000419	.025	97.0	61.4-130	L725162-06	WG746509
trans-1,2-Dichloroethene	mg/kg	0.125	0.0	.025	100.	56.5-129	L725162-06	WG746509
trans-1,3-Dichloropropene	mg/kg	0.110	0.0	.025	88.0	64.1-128	L725162-06	WG746509
Trichloroethene	mg/kg	0.129	0.0	.025	100.	44.1-149	L725162-06	WG746509
Trichlorofluoromethane	mg/kg	0.150	0.0	.025	120.	49.6-145	L725162-06	WG746509
Vinyl chloride	mg/kg	0.140	0.0	.025	110.	47.8-137	L725162-06	WG746509
Xylenes, Total	mg/kg	0.401	0.0	.075	110.	63.3-131	L725162-06	WG746509
4-Bromofluorobenzene					102.0	71-126		WG746509
Dibromofluoromethane					99.60	78.3-121		WG746509
Toluene-d8					111.0	88.5-111		WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0264	0.0	.025	110.	64-128	L725128-09	WG746491
1,1,1-Trichloroethane	mg/l	0.0264	0.0	.025	110.	58.7-134	L725128-09	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0243	0.0	.025	97.0	56-132	L725128-09	WG746491
1,1,2-Trichloroethane	mg/l	0.0251	0.0	.025	100.	66.3-125	L725128-09	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0270	0.0	.025	110.	54.8-154	L725128-09	WG746491

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Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethane	mg/l	0.0252	0.0	.025	100.	58.5-132	L725128-09	WG746491
1,1-Dichloroethene	mg/l	0.0247	0.0	.025	99.0	51.1-140	L725128-09	WG746491
1,1-Dichloropropene	mg/l	0.0258	0.0	.025	100.	57.3-136	L725128-09	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0181	0.0	.025	73.0	59.1-138	L725128-09	WG746491
1,2,3-Trichloropropane	mg/l	0.0255	0.0	.025	100.	61.4-128	L725128-09	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0223	0.0	.025	89.0	61.3-122	L725128-09	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0186	0.0	.025	74.0	63.6-143	L725128-09	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0253	0.0	.025	100.	57.4-137	L725128-09	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0200	0.0	.025	80.0	57.3-136	L725128-09	WG746491
1,2-Dibromoethane	mg/l	0.0261	0.0	.025	100.	67.1-125	L725128-09	WG746491
1,2-Dichlorobenzene	mg/l	0.0234	0.0	.025	94.0	68.2-123	L725128-09	WG746491
1,2-Dichloroethane	mg/l	0.0255	0.0	.025	100.	60-126	L725128-09	WG746491
1,2-Dichloropropane	mg/l	0.0252	0.0	.025	100.	64.2-123	L725128-09	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	63.6-132	L725128-09	WG746491
1,3-Dichlorobenzene	mg/l	0.0264	0.0	.025	100.	63.1-131	L725128-09	WG746491
1,3-Dichloropropane	mg/l	0.0245	0.0	.025	98.0	67.9-121	L725128-09	WG746491
1,4-Dichlorobenzene	mg/l	0.0231	0.0	.025	92.0	68.6-123	L725128-09	WG746491
2,2-Dichloropropane	mg/l	0.0257	0.0	.025	100.	50.5-144	L725128-09	WG746491
2-Butanone (MEK)	mg/l	0.0968	0.0	.125	78.0	22.4-138	L725128-09	WG746491
2-Chloroethyl vinyl ether	mg/l	0.00484	0.0	.125	3.90*	10-155	L725128-09	WG746491
2-Chlorotoluene	mg/l	0.0274	0.0	.025	110.	63.6-128	L725128-09	WG746491
4-Chlorotoluene	mg/l	0.0250	0.0	.025	100.	65.7-127	L725128-09	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.108	0.0	.125	87.0	60.8-140	L725128-09	WG746491
Acetone	mg/l	0.0921	0.00116	.125	73.0	10-130	L725128-09	WG746491
Acrolein	mg/l	0.117	0.0	.125	93.0	10-200	L725128-09	WG746491
Acrylonitrile	mg/l	0.108	0.0	.125	87.0	49.4-133	L725128-09	WG746491
Benzene	mg/l	0.0251	0.0	.025	100.	54.3-133	L725128-09	WG746491
Bromobenzene	mg/l	0.0243	0.0	.025	97.0	63.9-124	L725128-09	WG746491
Bromodichloromethane	mg/l	0.0244	0.0	.025	98.0	63.9-121	L725128-09	WG746491
Bromoform	mg/l	0.0260	0.0	.025	100.	59.5-134	L725128-09	WG746491
Bromomethane	mg/l	0.0218	0.0	.025	87.0	41.7-155	L725128-09	WG746491
Carbon tetrachloride	mg/l	0.0257	0.0	.025	100.	55.7-134	L725128-09	WG746491
Chlorobenzene	mg/l	0.0268	0.0	.025	110.	67-125	L725128-09	WG746491
Chlorodibromomethane	mg/l	0.0255	0.0	.025	100.	64.3-125	L725128-09	WG746491
Chloroethane	mg/l	0.0218	0.0	.025	87.0	51.5-136	L725128-09	WG746491
Chloroform	mg/l	0.0247	0.0	.025	99.0	63-129	L725128-09	WG746491
Chloromethane	mg/l	0.0190	0.0	.025	76.0	42.4-135	L725128-09	WG746491
cis-1,2-Dichloroethene	mg/l	0.0254	0.0	.025	100.	59.2-129	L725128-09	WG746491
cis-1,3-Dichloropropene	mg/l	0.0237	0.0	.025	95.0	66.4-125	L725128-09	WG746491
Di-isopropyl ether	mg/l	0.0224	0.0	.025	89.0	56.9-136	L725128-09	WG746491
Dibromomethane	mg/l	0.0254	0.0	.025	100.	68.2-124	L725128-09	WG746491
Dichlorodifluoromethane	mg/l	0.0177	0.0	.025	71.0	40.6-144	L725128-09	WG746491
Ethylbenzene	mg/l	0.0270	0.0	.025	110.	61.4-133	L725128-09	WG746491
Hexachloro-1,3-butadiene	mg/l	0.0222	0.0	.025	89.0	55.1-136	L725128-09	WG746491
Isopropylbenzene	mg/l	0.0274	0.0	.025	110.	66.8-141	L725128-09	WG746491
Methyl tert-butyl ether	mg/l	0.0240	0.0	.025	96.0	57.7-134	L725128-09	WG746491
Methylene Chloride	mg/l	0.0229	0.0	.025	92.0	58.1-122	L725128-09	WG746491
n-Butylbenzene	mg/l	0.0223	0.0	.025	89.0	62.7-140	L725128-09	WG746491
n-Propylbenzene	mg/l	0.0263	0.0	.025	100.	65.9-131	L725128-09	WG746491
Naphthalene	mg/l	0.0183	0.0	.025	73.0	58-135	L725128-09	WG746491
p-Isopropyltoluene	mg/l	0.0266	0.0	.025	110.	63.2-139	L725128-09	WG746491
sec-Butylbenzene	mg/l	0.0271	0.0	.025	110.	62.2-136	L725128-09	WG746491
Styrene	mg/l	0.0259	0.0	.025	100.	66.8-133	L725128-09	WG746491
tert-Butylbenzene	mg/l	0.0277	0.0	.025	110.	63.3-134	L725128-09	WG746491
Tetrachloroethene	mg/l	0.0283	0.0	.025	110.	53-139	L725128-09	WG746491
Toluene	mg/l	0.0254	0.0	.025	100.	61.4-130	L725128-09	WG746491
trans-1,2-Dichloroethene	mg/l	0.0246	0.0	.025	99.0	56.5-129	L725128-09	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0	.025	94.0	64.1-128	L725128-09	WG746491
Trichloroethene	mg/l	0.0282	0.0	.025	110.	44.1-149	L725128-09	WG746491

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Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichlorofluoromethane	mg/l	0.0246	0.0	.025	98.0	49.6-145	L725128-09	WG746491
Vinyl chloride	mg/l	0.0222	0.0	.025	89.0	47.8-137	L725128-09	WG746491
Xylenes, Total	mg/l	0.0815	0.0	.075	110.	63.3-131	L725128-09	WG746491
4-Bromofluorobenzene					106.0	71-126		WG746491
Dibromofluoromethane					101.0	78.3-121		WG746491
Toluene-d8					105.0	88.5-111		WG746491

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.121	0.124	96.7	64-128	2.68	20	L725162-06	WG746509
1,1,1-Trichloroethane	mg/kg	0.124	0.131	99.3	58.7-134	5.34	20	L725162-06	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.122	0.125	97.6	56-132	2.80	22.2	L725162-06	WG746509
1,1,2-Trichloroethane	mg/kg	0.129	0.131	103.	66.3-125	1.84	20	L725162-06	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.132	0.141	105.	54.8-154	6.53	22.5	L725162-06	WG746509
1,1-Dichloroethane	mg/kg	0.113	0.115	90.6	58.5-132	1.56	20	L725162-06	WG746509
1,1-Dichloroethene	mg/kg	0.121	0.128	96.6	51.1-140	5.70	20.2	L725162-06	WG746509
1,1-Dichloropropene	mg/kg	0.117	0.123	94.0	57.3-136	4.41	20	L725162-06	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.106	0.110	83.8	59.1-138	4.55	23.7	L725162-06	WG746509
1,2,3-Trichloropropane	mg/kg	0.115	0.117	91.7	61.4-128	1.99	22.4	L725162-06	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.124	0.128	99.0	61.3-122	3.03	20	L725162-06	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.109	0.116	86.9	63.6-143	6.21	21.9	L725162-06	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.121	0.129	96.6	57.4-137	6.25	20	L725162-06	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.117	0.118	93.8	57.3-136	0.730	27	L725162-06	WG746509
1,2-Dibromoethane	mg/kg	0.119	0.122	95.0	67.1-125	2.65	20	L725162-06	WG746509
1,2-Dichlorobenzene	mg/kg	0.126	0.130	101.	68.2-123	2.95	20	L725162-06	WG746509
1,2-Dichloroethane	mg/kg	0.114	0.115	91.5	60-126	0.610	20	L725162-06	WG746509
1,2-Dichloropropane	mg/kg	0.111	0.115	89.2	64.2-123	2.96	20	L725162-06	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.123	0.131	98.6	63.6-132	6.33	20.5	L725162-06	WG746509
1,3-Dichlorobenzene	mg/kg	0.123	0.129	98.4	63.1-131	4.88	20	L725162-06	WG746509
1,3-Dichloropropane	mg/kg	0.117	0.118	93.2	67.9-121	1.09	20	L725162-06	WG746509
1,4-Dichlorobenzene	mg/kg	0.124	0.130	99.1	68.6-123	5.12	20	L725162-06	WG746509
2,2-Dichloropropane	mg/kg	0.118	0.125	94.8	50.5-144	5.67	21.9	L725162-06	WG746509
2-Butanone (MEK)	mg/kg	0.487	0.498	78.0	22.4-138	2.22	27	L725162-06	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.548	0.561	87.6	10-155	2.37	40	L725162-06	WG746509
2-Chlorotoluene	mg/kg	0.125	0.132	100.	63.6-128	5.49	20	L725162-06	WG746509
4-Chlorotoluene	mg/kg	0.121	0.129	97.1	65.7-127	6.03	20	L725162-06	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.516	0.517	82.6	60.8-140	0.270	25.1	L725162-06	WG746509
Acetone	mg/kg	0.494	0.539	72.7	10-130	8.68	27.9	L725162-06	WG746509
Acrylonitrile	mg/kg	0.523	0.537	83.7	49.4-133	2.58	25.3	L725162-06	WG746509
Benzene	mg/kg	0.114	0.118	91.4	54.3-133	3.46	20	L725162-06	WG746509
Bromobenzene	mg/kg	0.119	0.127	95.4	63.9-124	6.08	20	L725162-06	WG746509
Bromodichloromethane	mg/kg	0.116	0.119	92.8	63.9-121	2.89	20	L725162-06	WG746509
Bromoform	mg/kg	0.121	0.125	97.0	59.5-134	2.89	20.8	L725162-06	WG746509
Bromomethane	mg/kg	0.173	0.170	138.	41.7-155	1.68	20.5	L725162-06	WG746509
Carbon tetrachloride	mg/kg	0.118	0.123	94.0	55.7-134	4.49	20.3	L725162-06	WG746509
Chlorobenzene	mg/kg	0.122	0.127	97.6	67-125	3.72	20	L725162-06	WG746509
Chlorodibromomethane	mg/kg	0.118	0.119	94.2	64.3-125	1.14	20	L725162-06	WG746509
Chloroethane	mg/kg	0.135	0.144	108.	51.5-136	6.88	20.8	L725162-06	WG746509
Chloroform	mg/kg	0.115	0.119	91.7	63-129	3.73	20	L725162-06	WG746509
Chloromethane	mg/kg	0.114	0.117	91.2	42.4-135	2.93	20	L725162-06	WG746509
cis-1,2-Dichloroethene	mg/kg	0.118	0.122	94.4	59.2-129	3.41	20	L725162-06	WG746509
cis-1,3-Dichloropropene	mg/kg	0.112	0.115	89.6	66.4-125	2.29	20	L725162-06	WG746509
Di-isopropyl ether	mg/kg	0.111	0.113	88.5	56.9-136	1.89	20	L725162-06	WG746509
Dibromomethane	mg/kg	0.108	0.112	86.1	68.2-124	3.87	20	L725162-06	WG746509
Dichlorodifluoromethane	mg/kg	0.136	0.147	108.	40.6-144	7.87	20.2	L725162-06	WG746509
Ethylbenzene	mg/kg	0.126	0.133	101.	61.4-133	5.26	20	L725162-06	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.106	0.117	84.5	55.1-136	10.2	23.6	L725162-06	WG746509
Isopropylbenzene	mg/kg	0.127	0.134	102.	66.8-141	4.79	20	L725162-06	WG746509

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Methyl tert-butyl ether	mg/kg	0.110	0.111	88.1	57.7-134	1.10	20	L725162-06	WG746509
Methylene Chloride	mg/kg	0.105	0.111	83.6	58.1-122	5.83	20	L725162-06	WG746509
n-Butylbenzene	mg/kg	0.121	0.128	96.9	62.7-140	5.38	20	L725162-06	WG746509
n-Propylbenzene	mg/kg	0.123	0.134	98.5	10-176	8.60	26.6	L725162-06	WG746509
Naphthalene	mg/kg	0.110	0.110	87.2	58-135	0.270	25.5	L725162-06	WG746509
p-Isopropyltoluene	mg/kg	0.122	0.129	97.3	63.2-139	5.74	20.4	L725162-06	WG746509
sec-Butylbenzene	mg/kg	0.128	0.137	103.	62.2-136	6.13	20.3	L725162-06	WG746509
Styrene	mg/kg	0.125	0.132	99.7	66.8-133	6.01	20	L725162-06	WG746509
tert-Butylbenzene	mg/kg	0.128	0.132	102.	63.3-134	2.73	20.3	L725162-06	WG746509
Tetrachloroethene	mg/kg	0.134	0.143	107.	53-139	6.35	20	L725162-06	WG746509
Toluene	mg/kg	0.116	0.122	92.3	61.4-130	5.17	20	L725162-06	WG746509
trans-1,2-Dichloroethene	mg/kg	0.120	0.125	95.9	56.5-129	3.87	20	L725162-06	WG746509
trans-1,3-Dichloropropene	mg/kg	0.104	0.110	83.5	64.1-128	4.85	20	L725162-06	WG746509
Trichloroethene	mg/kg	0.123	0.129	98.3	44.1-149	5.18	20	L725162-06	WG746509
Trichlorofluoromethane	mg/kg	0.138	0.150	110.	49.6-145	8.05	21.2	L725162-06	WG746509
Vinyl chloride	mg/kg	0.132	0.140	105.	47.8-137	6.24	20	L725162-06	WG746509
Xylenes, Total	mg/kg	0.377	0.401	100.	63.3-131	6.27	20	L725162-06	WG746509
4-Bromofluorobenzene				101.0	71-126				WG746509
Dibromofluoromethane				99.70	78.3-121				WG746509
Toluene-d8				110.0	88.5-111				WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0253	0.0264	101.	64-128	4.42	20	L725128-09	WG746491
1,1,1-Trichloroethane	mg/l	0.0253	0.0264	101.	58.7-134	4.12	20	L725128-09	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0234	0.0243	93.8	56-132	3.53	22.2	L725128-09	WG746491
1,1,2-Trichloroethane	mg/l	0.0239	0.0251	95.7	66.3-125	4.75	20	L725128-09	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0264	0.0270	106.	54.8-154	2.12	22.5	L725128-09	WG746491
1,1-Dichloroethane	mg/l	0.0245	0.0252	98.1	58.5-132	2.81	20	L725128-09	WG746491
1,1-Dichloroethene	mg/l	0.0237	0.0247	94.7	51.1-140	4.20	20.2	L725128-09	WG746491
1,1-Dichloropropene	mg/l	0.0247	0.0258	98.8	57.3-136	4.33	20	L725128-09	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0197	0.0181	78.9	59.1-138	8.36	23.7	L725128-09	WG746491
1,2,3-Trichloropropane	mg/l	0.0251	0.0255	100.	61.4-128	1.61	22.4	L725128-09	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0226	0.0223	90.5	61.3-122	1.61	20	L725128-09	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0203	0.0186	81.1	63.6-143	8.68	21.9	L725128-09	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0243	0.0253	97.0	57.4-137	4.15	20	L725128-09	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0202	0.0200	80.6	57.3-136	0.710	27	L725128-09	WG746491
1,2-Dibromoethane	mg/l	0.0246	0.0261	98.3	67.1-125	6.21	20	L725128-09	WG746491
1,2-Dichlorobenzene	mg/l	0.0242	0.0234	96.8	68.2-123	3.34	20	L725128-09	WG746491
1,2-Dichloroethane	mg/l	0.0248	0.0255	99.3	60-126	2.62	20	L725128-09	WG746491
1,2-Dichloropropane	mg/l	0.0245	0.0252	98.0	64.2-123	2.84	20	L725128-09	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0251	0.0262	100.	63.6-132	4.29	20.5	L725128-09	WG746491
1,3-Dichlorobenzene	mg/l	0.0252	0.0264	101.	63.1-131	4.52	20	L725128-09	WG746491
1,3-Dichloropropane	mg/l	0.0232	0.0245	92.8	67.9-121	5.65	20	L725128-09	WG746491
1,4-Dichlorobenzene	mg/l	0.0234	0.0231	93.5	68.6-123	1.17	20	L725128-09	WG746491
2,2-Dichloropropane	mg/l	0.0254	0.0257	102.	50.5-144	0.880	21.9	L725128-09	WG746491
2-Butanone (MEK)	mg/l	0.0944	0.0968	75.5	22.4-138	2.52	27	L725128-09	WG746491
2-Chloroethyl vinyl ether	mg/l	0.00520	0.00484	4.16*	10-155	7.05	20	L725128-09	WG746491
2-Chlorotoluene	mg/l	0.0262	0.0274	105.	63.6-128	4.62	20	L725128-09	WG746491
4-Chlorotoluene	mg/l	0.0234	0.0250	93.8	65.7-127	6.53	20	L725128-09	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.109	0.108	87.5	60.8-140	0.820	25.1	L725128-09	WG746491
Acetone	mg/l	0.0910	0.0921	71.9	10-130	1.15	27.9	L725128-09	WG746491
Acrolein	mg/l	0.113	0.117	90.3	10-200	3.24	27.7	L725128-09	WG746491
Acrylonitrile	mg/l	0.106	0.108	84.6	49.4-133	2.53	25.3	L725128-09	WG746491
Benzene	mg/l	0.0241	0.0251	96.3	54.3-133	4.00	20	L725128-09	WG746491
Bromobenzene	mg/l	0.0234	0.0243	93.6	63.9-124	3.72	20	L725128-09	WG746491
Bromodichloromethane	mg/l	0.0240	0.0244	96.1	63.9-121	1.65	20	L725128-09	WG746491
Bromoform	mg/l	0.0241	0.0260	96.4	59.5-134	7.81	20.5	L725128-09	WG746491
Bromomethane	mg/l	0.0222	0.0218	89.0	41.7-155	2.12	21.9	L725128-09	WG746491
Carbon tetrachloride	mg/l	0.0244	0.0257	97.4	55.7-134	5.33	20	L725128-09	WG746491

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L725127

October 07, 2014

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Chlorobenzene	mg/l	0.0249	0.0268	99.5	67-125	7.42	20	L725128-09	WG746491
Chlorodibromomethane	mg/l	0.0241	0.0255	96.4	64.3-125	5.75	20.8	L725128-09	WG746491
Chloroethane	mg/l	0.0205	0.0218	82.1	51.5-136	6.03	40	L725128-09	WG746491
Chloroform	mg/l	0.0238	0.0247	95.0	63-129	4.06	20	L725128-09	WG746491
Chloromethane	mg/l	0.0194	0.0190	77.7	42.4-135	2.47	20	L725128-09	WG746491
cis-1,2-Dichloroethene	mg/l	0.0252	0.0254	101.	59.2-129	0.870	20	L725128-09	WG746491
cis-1,3-Dichloropropene	mg/l	0.0238	0.0237	95.0	66.4-125	0.330	20	L725128-09	WG746491
Di-isopropyl ether	mg/l	0.0221	0.0224	88.4	56.9-136	1.19	20	L725128-09	WG746491
Dibromomethane	mg/l	0.0257	0.0254	103.	68.2-124	1.37	20	L725128-09	WG746491
Dichlorodifluoromethane	mg/l	0.0180	0.0177	72.2	40.6-144	1.70	20.2	L725128-09	WG746491
Ethylbenzene	mg/l	0.0257	0.0270	103.	61.4-133	4.94	20	L725128-09	WG746491
Hexachloro-1,3-butadiene	mg/l	0.0232	0.0222	92.9	55.1-136	4.61	23.6	L725128-09	WG746491
Isopropylbenzene	mg/l	0.0257	0.0274	103.	66.8-141	6.62	20	L725128-09	WG746491
Methyl tert-butyl ether	mg/l	0.0239	0.0240	95.6	57.7-134	0.420	20	L725128-09	WG746491
Methylene Chloride	mg/l	0.0229	0.0229	91.4	58.1-122	0.180	20	L725128-09	WG746491
n-Butylbenzene	mg/l	0.0227	0.0223	90.8	62.7-140	1.64	20.3	L725128-09	WG746491
n-Propylbenzene	mg/l	0.0250	0.0263	99.8	65.9-131	5.35	20	L725128-09	WG746491
Naphthalene	mg/l	0.0196	0.0183	78.3	58-135	6.68	25.5	L725128-09	WG746491
p-Isopropyltoluene	mg/l	0.0259	0.0266	104.	63.2-139	2.60	20.4	L725128-09	WG746491
sec-Butylbenzene	mg/l	0.0258	0.0271	103.	62.2-136	4.92	20.3	L725128-09	WG746491
Styrene	mg/l	0.0240	0.0259	96.2	66.8-133	7.48	20	L725128-09	WG746491
tert-Butylbenzene	mg/l	0.0266	0.0277	106.	63.3-134	4.27	21	L725128-09	WG746491
Tetrachloroethene	mg/l	0.0257	0.0283	103.	53-139	9.69	20	L725128-09	WG746491
Toluene	mg/l	0.0248	0.0254	99.4	61.4-130	2.30	20	L725128-09	WG746491
trans-1,2-Dichloroethene	mg/l	0.0244	0.0246	97.5	56.5-129	1.09	20	L725128-09	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0234	93.6	64.1-128	0.130	20	L725128-09	WG746491
Trichloroethene	mg/l	0.0277	0.0282	111.	44.1-149	1.78	20	L725128-09	WG746491
Trichlorofluoromethane	mg/l	0.0233	0.0246	93.2	49.6-145	5.52	21.2	L725128-09	WG746491
Vinyl chloride	mg/l	0.0213	0.0222	85.1	47.8-137	4.33	20	L725128-09	WG746491
Xylenes, Total	mg/l	0.0763	0.0815	102.	63.3-131	6.64	20	L725128-09	WG746491
4-Bromofluorobenzene				100.0	71-126				WG746491
Dibromofluoromethane				102.0	78.3-121				WG746491
Toluene-d8				106.0	88.5-111				WG746491

Batch number /Run number / Sample number cross reference

WG746696: R2995227: L725127-03 04
WG746695: R2995228: L725127-01 02
WG746509: R2995490: L725127-01 02 03 04
WG746491: R2995526: L725127-05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L725127

October 07, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

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

Report to: Matt Dahl
Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA
City/State Collected: Normandy Park WA

Phone: 206-529-3880 Fax: 206-529-3985
Client Project # 1358.001.01.005
Lab Project # PESENVSWA-135800101

Collected by (print): Chris Deboer
Site/Facility ID # NORMADY PARK, WA
P.O. #

Collected by (signature): Chris Deboer
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed
Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4oz Clr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260 Trip Blank 40ml Amb-HCl-Blk							Sample # (lab only)
SVE-19-5	Grab	SS	5	9-29-14	1325	4	X	X								01
AS-S-15	Grab	SS	15	9-30-14	0850	4	X	X								02
AS-4-5	Grab	SS	5	9-30-14	1330	4	X	X								03
AS-3-10	Grab	SS	10	10-1-14	0910	4	X	X								04
		SS				4	X	X								
TRIP BLANK		GW				1			X							05

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

ESC

Lab # L205171
1240

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483489
TSR: 358 - Jarred Willis
PB:
Shipped Via: FedEx Ground

Rem./Contaminant | Sample # (lab only)

*Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other _____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris Deboer	10-1-14	1115	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
			6098 7181 5519
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____
Temp: 2.1 °C Bottles Received: 17
Date: 10/2/14 Time: 0930

Condition: (lab use only) OK
COC Seal Intact: ___ Y ___ N X NA
pH Checked: NCF:

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Matt Dahl
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1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Tuesday October 07, 2014

Report Number: L725230
Samples Received: 10/02/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-30-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 08:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.9		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260B	10/06/14	1.07
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Benzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromoform	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Bromomethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Chloroethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260B	10/06/14	1.07
Chloroform	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
Chloromethane	BDL	0.0028	mg/kg	8260B	10/06/14	1.07
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-30-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 08:56

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Methylene Chloride	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/06/14	1.07
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Naphthalene	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Styrene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Tetrachloroethene	0.0015	0.0011	mg/kg	8260B	10/06/14	1.07
Toluene	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260B	10/06/14	1.07
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/06/14	1.07
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/06/14	1.07
Xylenes, Total	BDL	0.0033	mg/kg	8260B	10/06/14	1.07
Surrogate Recovery						
Toluene-d8	114.		% Rec.	8260B	10/06/14	1.07
Dibromofluoromethane	96.5		% Rec.	8260B	10/06/14	1.07
4-Bromofluorobenzene	102.		% Rec.	8260B	10/06/14	1.07

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-31-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 15:24

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.6		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	0.076	0.057	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0057	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0057	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.057	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0057	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0028	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0057	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0057	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-31-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 15:24

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0057	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0057	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0057	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0057	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0034	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	113.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	94.9		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	104.		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-6-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 11:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.2		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	0.063	0.053	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0053	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-6-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 11:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0053	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Tetrachloroethene	0.0042	0.0011	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	113.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	97.8		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	103.		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-2-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	92.9		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	0.082	0.054	mg/kg	8260B	10/06/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/06/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/06/14	1
Bromomethane	BDL	0.0054	mg/kg	8260B	10/06/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Chloroethane	BDL	0.0054	mg/kg	8260B	10/06/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260B	10/06/14	1
Chloroform	BDL	0.0054	mg/kg	8260B	10/06/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/06/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260B	10/06/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260B	10/06/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-2-5

Collected By : Chris DeBoer
Collection Date : 09/25/14 09:15

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/06/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260B	10/06/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/06/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/06/14	1
Naphthalene	BDL	0.0054	mg/kg	8260B	10/06/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Toluene	BDL	0.0054	mg/kg	8260B	10/06/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260B	10/06/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/06/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/06/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/06/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/06/14	1
Surrogate Recovery						
Toluene-d8	113.		% Rec.	8260B	10/06/14	1
Dibromofluoromethane	95.9		% Rec.	8260B	10/06/14	1
4-Bromofluorobenzene	101.		% Rec.	8260B	10/06/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/25/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	10/05/14	1
Acrolein	BDL	50.	ug/l	8260B	10/05/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	10/05/14	1
Benzene	BDL	1.0	ug/l	8260B	10/05/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	10/05/14	1
Bromoform	BDL	1.0	ug/l	8260B	10/05/14	1
Bromomethane	BDL	5.0	ug/l	8260B	10/05/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	10/05/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	10/05/14	1
Chloroethane	BDL	5.0	ug/l	8260B	10/05/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	10/05/14	1
Chloroform	BDL	5.0	ug/l	8260B	10/05/14	1
Chloromethane	BDL	2.5	ug/l	8260B	10/05/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	10/05/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	10/05/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	10/05/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	10/05/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	10/05/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	10/05/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/05/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/05/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/05/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	10/05/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	10/05/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/05/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/05/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/05/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	10/05/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	10/05/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	10/05/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 07,2014

ESC Sample # : L725230-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 09/25/14 00:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	10/05/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	10/05/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	10/05/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	10/05/14	1
Naphthalene	BDL	5.0	ug/l	8260B	10/05/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Styrene	BDL	1.0	ug/l	8260B	10/05/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	10/05/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	10/05/14	1
Toluene	BDL	5.0	ug/l	8260B	10/05/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	10/05/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	10/05/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	10/05/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	10/05/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/05/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	10/05/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	10/05/14	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	10/05/14	1
Dibromofluoromethane	99.3		% Rec.	8260B	10/05/14	1
4-Bromofluorobenzene	97.7		% Rec.	8260B	10/05/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L725230-01	WG746509	SAMP	Toluene-d8	R2995490	J1
L725230-02	WG746509	SAMP	Toluene-d8	R2995490	J1
L725230-03	WG746509	SAMP	Toluene-d8	R2995490	J1
L725230-04	WG746509	SAMP	Toluene-d8	R2995490	J1

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725230

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG746776	10/05/14 16:18
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,1-Trichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2-Trichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
1,1-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trichloropropane	< .0025	mg/kg			WG746509	10/06/14 11:29
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746509	10/06/14 11:29
1,2-Dibromoethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichloroethane	< .001	mg/kg			WG746509	10/06/14 11:29
1,2-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,3-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
1,3-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
1,4-Dichlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
2,2-Dichloropropane	< .001	mg/kg			WG746509	10/06/14 11:29
2-Butanone (MEK)	< .01	mg/kg			WG746509	10/06/14 11:29
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746509	10/06/14 11:29
2-Chlorotoluene	< .001	mg/kg			WG746509	10/06/14 11:29
4-Chlorotoluene	< .001	mg/kg			WG746509	10/06/14 11:29
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746509	10/06/14 11:29
Acetone	< .05	mg/kg			WG746509	10/06/14 11:29
Acrylonitrile	< .01	mg/kg			WG746509	10/06/14 11:29
Benzene	< .001	mg/kg			WG746509	10/06/14 11:29
Bromobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Bromodichloromethane	< .001	mg/kg			WG746509	10/06/14 11:29
Bromoform	< .001	mg/kg			WG746509	10/06/14 11:29
Bromomethane	< .005	mg/kg			WG746509	10/06/14 11:29
Carbon tetrachloride	< .001	mg/kg			WG746509	10/06/14 11:29
Chlorobenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Chlorodibromomethane	< .001	mg/kg			WG746509	10/06/14 11:29
Chloroethane	< .005	mg/kg			WG746509	10/06/14 11:29
Chloroform	< .005	mg/kg			WG746509	10/06/14 11:29
Chloromethane	< .0025	mg/kg			WG746509	10/06/14 11:29
cis-1,2-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
cis-1,3-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
Di-isopropyl ether	< .001	mg/kg			WG746509	10/06/14 11:29
Dibromomethane	< .001	mg/kg			WG746509	10/06/14 11:29
Dichlorodifluoromethane	< .005	mg/kg			WG746509	10/06/14 11:29
Ethylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746509	10/06/14 11:29
Isopropylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Methyl tert-butyl ether	< .001	mg/kg			WG746509	10/06/14 11:29
Methylene Chloride	< .005	mg/kg			WG746509	10/06/14 11:29
n-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
n-Propylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Naphthalene	< .005	mg/kg			WG746509	10/06/14 11:29
p-Isopropyltoluene	< .001	mg/kg			WG746509	10/06/14 11:29
sec-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29

* Performance of this Analyte is outside of established criteria.
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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725230

October 07, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Styrene	< .001	mg/kg			WG746509	10/06/14 11:29
tert-Butylbenzene	< .001	mg/kg			WG746509	10/06/14 11:29
Tetrachloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
Toluene	< .005	mg/kg			WG746509	10/06/14 11:29
trans-1,2-Dichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
trans-1,3-Dichloropropene	< .001	mg/kg			WG746509	10/06/14 11:29
Trichloroethene	< .001	mg/kg			WG746509	10/06/14 11:29
Trichlorofluoromethane	< .005	mg/kg			WG746509	10/06/14 11:29
Vinyl chloride	< .001	mg/kg			WG746509	10/06/14 11:29
Xylenes, Total	< .003	mg/kg			WG746509	10/06/14 11:29
4-Bromofluorobenzene		% Rec.	104.0	71-126	WG746509	10/06/14 11:29
Dibromofluoromethane		% Rec.	98.20	78.3-121	WG746509	10/06/14 11:29
Toluene-d8		% Rec.	108.0	88.5-111	WG746509	10/06/14 11:29
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,1-Trichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2-Trichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
1,1-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,2,3-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,4-Trichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2,4-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG746491	10/04/14 21:41
1,2-Dibromoethane	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichloroethane	< .001	mg/l			WG746491	10/04/14 21:41
1,2-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,3,5-Trimethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,3-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
1,3-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
1,4-Dichlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
2,2-Dichloropropane	< .001	mg/l			WG746491	10/04/14 21:41
2-Butanone (MEK)	< .01	mg/l			WG746491	10/04/14 21:41
2-Chloroethyl vinyl ether	< .05	mg/l			WG746491	10/04/14 21:41
2-Chlorotoluene	< .001	mg/l			WG746491	10/04/14 21:41
4-Chlorotoluene	< .001	mg/l			WG746491	10/04/14 21:41
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG746491	10/04/14 21:41
Acetone	< .05	mg/l			WG746491	10/04/14 21:41
Acrolein	< .025	mg/l			WG746491	10/04/14 21:41
Acrylonitrile	< .01	mg/l			WG746491	10/04/14 21:41
Benzene	< .001	mg/l			WG746491	10/04/14 21:41
Bromobenzene	< .001	mg/l			WG746491	10/04/14 21:41
Bromodichloromethane	< .001	mg/l			WG746491	10/04/14 21:41
Bromoform	< .001	mg/l			WG746491	10/04/14 21:41
Bromomethane	< .005	mg/l			WG746491	10/04/14 21:41
Carbon tetrachloride	< .001	mg/l			WG746491	10/04/14 21:41
Chlorobenzene	< .001	mg/l			WG746491	10/04/14 21:41
Chlorodibromomethane	< .001	mg/l			WG746491	10/04/14 21:41
Chloroethane	< .005	mg/l			WG746491	10/04/14 21:41
Chloroform	< .005	mg/l			WG746491	10/04/14 21:41
Chloromethane	< .0025	mg/l			WG746491	10/04/14 21:41
cis-1,2-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
cis-1,3-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41

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Level II

L725230

October 07, 2014

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Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Di-isopropyl ether	< .001	mg/l			WG746491	10/04/14 21:41
Dibromomethane	< .001	mg/l			WG746491	10/04/14 21:41
Dichlorodifluoromethane	< .005	mg/l			WG746491	10/04/14 21:41
Ethylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Hexachloro-1,3-butadiene	< .001	mg/l			WG746491	10/04/14 21:41
Isopropylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Methyl tert-butyl ether	< .001	mg/l			WG746491	10/04/14 21:41
Methylene Chloride	< .005	mg/l			WG746491	10/04/14 21:41
n-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
n-Propylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Naphthalene	< .005	mg/l			WG746491	10/04/14 21:41
p-Isopropyltoluene	< .001	mg/l			WG746491	10/04/14 21:41
sec-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Styrene	< .001	mg/l			WG746491	10/04/14 21:41
tert-Butylbenzene	< .001	mg/l			WG746491	10/04/14 21:41
Tetrachloroethene	< .001	mg/l			WG746491	10/04/14 21:41
Toluene	< .005	mg/l			WG746491	10/04/14 21:41
trans-1,2-Dichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
trans-1,3-Dichloropropene	< .001	mg/l			WG746491	10/04/14 21:41
Trichloroethene	< .001	mg/l			WG746491	10/04/14 21:41
Trichlorofluoromethane	< .005	mg/l			WG746491	10/04/14 21:41
Vinyl chloride	< .001	mg/l			WG746491	10/04/14 21:41
Xylenes, Total	< .003	mg/l			WG746491	10/04/14 21:41
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG746491	10/04/14 21:41
Dibromofluoromethane		% Rec.	99.90	78.3-121	WG746491	10/04/14 21:41
Toluene-d8		% Rec.	107.0	88.5-111	WG746491	10/04/14 21:41

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	86.8	86.5	0.262	5	L725612-01	WG746776

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG746776
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0240	96.1	72.9-124	WG746509
1,1,1-Trichloroethane	mg/kg	.025	0.0226	90.5	73.7-124	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0241	96.3	69.4-122	WG746509
1,1,2-Trichloroethane	mg/kg	.025	0.0259	104.	79.1-118	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0246	98.3	70-146	WG746509
1,1-Dichloroethane	mg/kg	.025	0.0216	86.5	75-124	WG746509
1,1-Dichloroethene	mg/kg	.025	0.0234	93.6	70.4-129	WG746509
1,1-Dichloropropene	mg/kg	.025	0.0233	93.2	74.9-124	WG746509
1,2,3-Trichlorobenzene	mg/kg	.025	0.0236	94.2	69.3-131	WG746509
1,2,3-Trichloropropane	mg/kg	.025	0.0225	89.8	71.4-123	WG746509
1,2,3-Trimethylbenzene	mg/kg	.025	0.0252	101.	73.6-113	WG746509
1,2,4-Trichlorobenzene	mg/kg	.025	0.0245	97.9	71.9-137	WG746509
1,2,4-Trimethylbenzene	mg/kg	.025	0.0246	98.3	75.5-122	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0230	91.9	62.8-133	WG746509
1,2-Dibromoethane	mg/kg	.025	0.0240	96.0	78.6-120	WG746509
1,2-Dichlorobenzene	mg/kg	.025	0.0263	105.	78.3-118	WG746509
1,2-Dichloroethane	mg/kg	.025	0.0225	89.9	70.1-124	WG746509
1,2-Dichloropropane	mg/kg	.025	0.0224	89.5	77.9-119	WG746509
1,3,5-Trimethylbenzene	mg/kg	.025	0.0249	99.8	75.9-124	WG746509
1,3-Dichlorobenzene	mg/kg	.025	0.0260	104.	72-126	WG746509
1,3-Dichloropropane	mg/kg	.025	0.0235	94.1	79.1-117	WG746509

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October 07, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,4-Dichlorobenzene	mg/kg	.025	0.0265	106.	78.3-117	WG746509
2,2-Dichloropropane	mg/kg	.025	0.0203	81.3	61.3-136	WG746509
2-Butanone (MEK)	mg/kg	.125	0.0974	77.9	53.7-153	WG746509
2-Chloroethyl vinyl ether	mg/kg	.125	0.114	91.3	37.7-157	WG746509
2-Chlorotoluene	mg/kg	.025	0.0253	101.	75.6-121	WG746509
4-Chlorotoluene	mg/kg	.025	0.0252	101.	77.3-120	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.102	81.3	70.4-137	WG746509
Acetone	mg/kg	.125	0.0945	75.6	35.1-175	WG746509
Acrylonitrile	mg/kg	.125	0.105	84.1	56.4-128	WG746509
Benzene	mg/kg	.025	0.0228	91.1	77.1-121	WG746509
Bromobenzene	mg/kg	.025	0.0246	98.4	78.2-115	WG746509
Bromodichloromethane	mg/kg	.025	0.0229	91.7	74.9-115	WG746509
Bromoform	mg/kg	.025	0.0246	98.3	65.9-132	WG746509
Bromomethane	mg/kg	.025	0.0325	130.	48.7-165	WG746509
Carbon tetrachloride	mg/kg	.025	0.0223	89.0	70-124	WG746509
Chlorobenzene	mg/kg	.025	0.0249	99.6	79.1-119	WG746509
Chlorodibromomethane	mg/kg	.025	0.0235	94.1	73.5-121	WG746509
Chloroethane	mg/kg	.025	0.0259	104.	66.2-132	WG746509
Chloroform	mg/kg	.025	0.0225	89.8	76.7-122	WG746509
Chloromethane	mg/kg	.025	0.0222	88.9	63.4-131	WG746509
cis-1,2-Dichloroethene	mg/kg	.025	0.0231	92.4	78.2-119	WG746509
cis-1,3-Dichloropropene	mg/kg	.025	0.0229	91.7	79.6-120	WG746509
Di-isopropyl ether	mg/kg	.025	0.0217	86.8	70.4-133	WG746509
Dibromomethane	mg/kg	.025	0.0219	87.6	79.4-120	WG746509
Dichlorodifluoromethane	mg/kg	.025	0.0250	100.	57.1-137	WG746509
Ethylbenzene	mg/kg	.025	0.0256	102.	79.7-122	WG746509
Hexachloro-1,3-butadiene	mg/kg	.025	0.0246	98.4	68.2-123	WG746509
Isopropylbenzene	mg/kg	.025	0.0252	101.	80-135	WG746509
Methyl tert-butyl ether	mg/kg	.025	0.0216	86.6	73-129	WG746509
Methylene Chloride	mg/kg	.025	0.0205	82.0	72.6-120	WG746509
n-Butylbenzene	mg/kg	.025	0.0261	104.	77.5-126	WG746509
n-Propylbenzene	mg/kg	.025	0.0254	102.	77.9-123	WG746509
Naphthalene	mg/kg	.025	0.0232	92.8	69.8-128	WG746509
p-Isopropyltoluene	mg/kg	.025	0.0249	99.7	75.8-129	WG746509
sec-Butylbenzene	mg/kg	.025	0.0257	103.	75.8-126	WG746509
Styrene	mg/kg	.025	0.0256	103.	82.4-126	WG746509
tert-Butylbenzene	mg/kg	.025	0.0248	99.4	76.4-126	WG746509
Tetrachloroethene	mg/kg	.025	0.0278	111.	73.9-125	WG746509
Toluene	mg/kg	.025	0.0235	93.9	79.7-118	WG746509
trans-1,2-Dichloroethene	mg/kg	.025	0.0229	91.7	73.8-122	WG746509
trans-1,3-Dichloropropene	mg/kg	.025	0.0215	85.9	75.9-124	WG746509
Trichloroethene	mg/kg	.025	0.0248	99.4	77.9-118	WG746509
Trichlorofluoromethane	mg/kg	.025	0.0246	98.5	67.7-131	WG746509
Vinyl chloride	mg/kg	.025	0.0247	98.7	66.7-130	WG746509
Xylenes, Total	mg/kg	.075	0.0760	101.	78.8-121	WG746509
4-Bromofluorobenzene				101.0	71-126	WG746509
Dibromofluoromethane				97.70	78.3-121	WG746509
Toluene-d8				105.0	88.5-111	WG746509
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0255	102.	74.2-124	WG746491
1,1,1-Trichloroethane	mg/l	.025	0.0247	98.7	73.2-123	WG746491
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0228	91.3	70.7-122	WG746491
1,1,2-Trichloroethane	mg/l	.025	0.0239	95.6	77.7-118	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0245	97.9	67.2-143	WG746491
1,1-Dichloroethane	mg/l	.025	0.0235	93.8	70.7-126	WG746491
1,1-Dichloroethene	mg/l	.025	0.0225	90.2	67.8-129	WG746491
1,1-Dichloropropene	mg/l	.025	0.0241	96.3	73.1-125	WG746491
1,2,3-Trichlorobenzene	mg/l	.025	0.0210	83.8	64.9-135	WG746491

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Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2,3-Trichloropropane	mg/l	.025	0.0242	96.9	71.8-121	WG746491
1,2,3-Trimethylbenzene	mg/l	.025	0.0228	91.2	72.3-116	WG746491
1,2,4-Trichlorobenzene	mg/l	.025	0.0215	86.1	69.7-136	WG746491
1,2,4-Trimethylbenzene	mg/l	.025	0.0251	100.	75-123	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0192	76.7	65.4-128	WG746491
1,2-Dibromoethane	mg/l	.025	0.0249	99.5	76.6-121	WG746491
1,2-Dichlorobenzene	mg/l	.025	0.0241	96.3	78.4-117	WG746491
1,2-Dichloroethane	mg/l	.025	0.0245	97.9	68.8-124	WG746491
1,2-Dichloropropane	mg/l	.025	0.0241	96.4	76.5-119	WG746491
1,3,5-Trimethylbenzene	mg/l	.025	0.0257	103.	75.6-124	WG746491
1,3-Dichlorobenzene	mg/l	.025	0.0266	106.	70.8-128	WG746491
1,3-Dichloropropane	mg/l	.025	0.0231	92.4	77.4-117	WG746491
1,4-Dichlorobenzene	mg/l	.025	0.0233	93.2	78.8-115	WG746491
2,2-Dichloropropane	mg/l	.025	0.0251	100.	62.4-133	WG746491
2-Butanone (MEK)	mg/l	.125	0.0945	75.6	55-149	WG746491
2-Chloroethyl vinyl ether	mg/l	.125	0.119	95.1	43.8-150	WG746491
2-Chlorotoluene	mg/l	.025	0.0262	105.	74.7-122	WG746491
4-Chlorotoluene	mg/l	.025	0.0242	96.7	77.5-120	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.104	83.4	70.5-133	WG746491
Acetone	mg/l	.125	0.0983	78.6	35.6-163	WG746491
Acrolein	mg/l	.125	0.109	87.3	10-190	WG746491
Acrylonitrile	mg/l	.125	0.102	81.2	55.2-130	WG746491
Benzene	mg/l	.025	0.0241	96.3	74.8-121	WG746491
Bromobenzene	mg/l	.025	0.0237	94.8	77.5-116	WG746491
Bromodichloromethane	mg/l	.025	0.0243	97.1	75.1-116	WG746491
Bromoform	mg/l	.025	0.0244	97.7	67.5-130	WG746491
Bromomethane	mg/l	.025	0.0243	97.3	49.9-162	WG746491
Carbon tetrachloride	mg/l	.025	0.0233	93.4	70.2-123	WG746491
Chlorobenzene	mg/l	.025	0.0250	99.9	78.1-119	WG746491
Chlorodibromomethane	mg/l	.025	0.0246	98.3	74-121	WG746491
Chloroethane	mg/l	.025	0.0218	87.2	61.7-135	WG746491
Chloroform	mg/l	.025	0.0236	94.4	76-121	WG746491
Chloromethane	mg/l	.025	0.0205	82.0	61.5-129	WG746491
cis-1,2-Dichloroethene	mg/l	.025	0.0250	99.9	76-119	WG746491
cis-1,3-Dichloropropene	mg/l	.025	0.0243	97.0	78.2-120	WG746491
Di-isopropyl ether	mg/l	.025	0.0216	86.6	65.6-132	WG746491
Dibromomethane	mg/l	.025	0.0247	98.9	79.5-118	WG746491
Dichlorodifluoromethane	mg/l	.025	0.0210	84.2	54.8-135	WG746491
Ethylbenzene	mg/l	.025	0.0253	101.	78.8-122	WG746491
Hexachloro-1,3-butadiene	mg/l	.025	0.0234	93.6	64.7-129	WG746491
Isopropylbenzene	mg/l	.025	0.0254	102.	78.6-132	WG746491
Methyl tert-butyl ether	mg/l	.025	0.0240	95.9	71.2-126	WG746491
Methylene Chloride	mg/l	.025	0.0225	90.1	70.3-120	WG746491
n-Butylbenzene	mg/l	.025	0.0230	92.2	76.2-126	WG746491
n-Propylbenzene	mg/l	.025	0.0250	99.9	78.2-122	WG746491
Naphthalene	mg/l	.025	0.0196	78.6	68.4-128	WG746491
p-Isopropyltoluene	mg/l	.025	0.0264	106.	74-131	WG746491
sec-Butylbenzene	mg/l	.025	0.0259	104.	74.4-127	WG746491
Styrene	mg/l	.025	0.0247	98.8	80.4-126	WG746491
tert-Butylbenzene	mg/l	.025	0.0265	106.	75.3-126	WG746491
Tetrachloroethene	mg/l	.025	0.0262	105.	72.6-126	WG746491
Toluene	mg/l	.025	0.0240	96.1	79.7-116	WG746491
trans-1,2-Dichloroethene	mg/l	.025	0.0236	94.3	72.6-121	WG746491
trans-1,3-Dichloropropene	mg/l	.025	0.0230	92.0	74.3-123	WG746491
Trichloroethene	mg/l	.025	0.0268	107.	77.7-118	WG746491
Trichlorofluoromethane	mg/l	.025	0.0246	98.4	63.5-135	WG746491
Vinyl chloride	mg/l	.025	0.0228	91.2	65.9-128	WG746491
Xylenes, Total	mg/l	.075	0.0766	102.	78.7-121	WG746491
4-Bromofluorobenzene				102.0	71-126	WG746491

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Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Dibromofluoromethane					99.90		78.3-121	
Toluene-d8					105.0		88.5-111	

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0237	0.0240	95.0	72.9-124	1.19	20	WG746509
1,1,1-Trichloroethane	mg/kg	0.0222	0.0226	89.0	73.7-124	1.73	20	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.0236	0.0241	94.0	69.4-122	2.14	20	WG746509
1,1,2-Trichloroethane	mg/kg	0.0250	0.0259	100.	79.1-118	3.79	20	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0236	0.0246	94.0	70-146	4.16	20	WG746509
1,1-Dichloroethane	mg/kg	0.0210	0.0216	84.0	75-124	3.07	20	WG746509
1,1-Dichloroethene	mg/kg	0.0218	0.0234	87.0	70.4-129	6.89	20	WG746509
1,1-Dichloropropene	mg/kg	0.0219	0.0233	88.0	74.9-124	6.06	20	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.0239	0.0236	96.0	69.3-131	1.48	20	WG746509
1,2,3-Trichloropropane	mg/kg	0.0214	0.0225	86.0	71.4-123	4.59	20	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.0244	0.0252	97.0	73.6-113	3.34	20	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.0246	0.0245	98.0	71.9-137	0.440	20	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.0243	0.0246	97.0	75.5-122	1.21	20	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.0221	0.0230	88.0	62.8-133	3.73	20	WG746509
1,2-Dibromoethane	mg/kg	0.0234	0.0240	93.0	78.6-120	2.67	20	WG746509
1,2-Dichlorobenzene	mg/kg	0.0258	0.0263	103.	78.3-118	1.74	20	WG746509
1,2-Dichloroethane	mg/kg	0.0219	0.0225	88.0	70.1-124	2.59	20	WG746509
1,2-Dichloropropane	mg/kg	0.0213	0.0224	85.0	77.9-119	5.00	20	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.0244	0.0249	97.0	75.9-124	2.32	20	WG746509
1,3-Dichlorobenzene	mg/kg	0.0253	0.0260	101.	72-126	2.78	20	WG746509
1,3-Dichloropropane	mg/kg	0.0229	0.0235	92.0	79.1-117	2.72	20	WG746509
1,4-Dichlorobenzene	mg/kg	0.0250	0.0265	100.	78.3-117	5.81	20	WG746509
2,2-Dichloropropane	mg/kg	0.0205	0.0203	82.0	61.3-136	0.660	20	WG746509
2-Butanone (MEK)	mg/kg	0.0918	0.0974	73.0	53.7-153	5.86	21.2	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.104	0.114	84.0	37.7-157	8.90	20	WG746509
2-Chlorotoluene	mg/kg	0.0245	0.0253	98.0	75.6-121	3.23	20	WG746509
4-Chlorotoluene	mg/kg	0.0244	0.0252	98.0	77.3-120	3.13	20	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.0971	0.102	78.0	70.4-137	4.51	20	WG746509
Acetone	mg/kg	0.0871	0.0945	70.0	35.1-175	8.05	26.1	WG746509
Acrylonitrile	mg/kg	0.101	0.105	80.0	56.4-128	4.33	20	WG746509
Benzene	mg/kg	0.0216	0.0228	86.0	77.1-121	5.12	20	WG746509
Bromobenzene	mg/kg	0.0237	0.0246	95.0	78.2-115	3.56	20	WG746509
Bromodichloromethane	mg/kg	0.0224	0.0229	90.0	74.9-115	2.27	20	WG746509
Bromoform	mg/kg	0.0236	0.0246	94.0	65.9-132	3.89	20	WG746509
Bromomethane	mg/kg	0.0310	0.0325	124.	48.7-165	4.68	20	WG746509
Carbon tetrachloride	mg/kg	0.0214	0.0223	86.0	70-124	3.98	20	WG746509
Chlorobenzene	mg/kg	0.0240	0.0249	96.0	79.1-119	3.68	20	WG746509
Chlorodibromomethane	mg/kg	0.0225	0.0235	90.0	73.5-121	4.27	20	WG746509
Chloroethane	mg/kg	0.0256	0.0259	102.	66.2-132	1.13	20	WG746509
Chloroform	mg/kg	0.0216	0.0225	86.0	76.7-122	3.90	20	WG746509
Chloromethane	mg/kg	0.0206	0.0222	82.0	63.4-131	7.56	20	WG746509
cis-1,2-Dichloroethene	mg/kg	0.0224	0.0231	90.0	78.2-119	3.21	20	WG746509
cis-1,3-Dichloropropene	mg/kg	0.0217	0.0229	87.0	79.6-120	5.43	20	WG746509
Di-isopropyl ether	mg/kg	0.0211	0.0217	84.0	70.4-133	2.90	20	WG746509
Dibromomethane	mg/kg	0.0213	0.0219	85.0	79.4-120	3.03	20	WG746509
Dichlorodifluoromethane	mg/kg	0.0230	0.0250	92.0	57.1-137	8.50	20	WG746509
Ethylbenzene	mg/kg	0.0249	0.0256	100.	79.7-122	2.85	20	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.0245	0.0246	98.0	68.2-123	0.340	20	WG746509
Isopropylbenzene	mg/kg	0.0244	0.0252	98.0	80-135	3.13	20	WG746509
Methyl tert-butyl ether	mg/kg	0.0212	0.0216	85.0	73-129	1.93	20	WG746509
Methylene Chloride	mg/kg	0.0199	0.0205	79.0	72.6-120	3.13	20	WG746509
n-Butylbenzene	mg/kg	0.0249	0.0261	100.	77.5-126	4.55	20	WG746509
n-Propylbenzene	mg/kg	0.0243	0.0254	97.0	77.9-123	4.54	20	WG746509

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Level II

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October 07, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Naphthalene	mg/kg	0.0232	0.0232	93.0	69.8-128	0.190	20	WG746509
p-Isopropyltoluene	mg/kg	0.0247	0.0249	99.0	75.8-129	1.03	20	WG746509
sec-Butylbenzene	mg/kg	0.0251	0.0257	100.	75.8-126	2.53	20	WG746509
Styrene	mg/kg	0.0249	0.0256	100.	82.4-126	2.86	20	WG746509
tert-Butylbenzene	mg/kg	0.0245	0.0248	98.0	76.4-126	1.49	20	WG746509
Tetrachloroethene	mg/kg	0.0258	0.0278	103.	73.9-125	7.45	20	WG746509
Toluene	mg/kg	0.0220	0.0235	88.0	79.7-118	6.53	20	WG746509
trans-1,2-Dichloroethene	mg/kg	0.0217	0.0229	87.0	73.8-122	5.60	20	WG746509
trans-1,3-Dichloropropene	mg/kg	0.0206	0.0215	82.0	75.9-124	4.20	20	WG746509
Trichloroethene	mg/kg	0.0234	0.0248	93.0	77.9-118	6.08	20	WG746509
Trichlorofluoromethane	mg/kg	0.0245	0.0246	98.0	67.7-131	0.690	20	WG746509
Vinyl chloride	mg/kg	0.0233	0.0247	93.0	66.7-130	5.91	20	WG746509
Xylenes, Total	mg/kg	0.0726	0.0760	97.0	78.8-121	4.58	20	WG746509
4-Bromofluorobenzene				100.0	71-126			WG746509
Dibromofluoromethane				98.60	78.3-121			WG746509
Toluene-d8				109.0	88.5-111			WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0258	0.0255	103.	74.2-124	1.17	20	WG746491
1,1,1-Trichloroethane	mg/l	0.0248	0.0247	99.0	73.2-123	0.430	20	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0231	0.0228	92.0	70.7-122	1.25	20	WG746491
1,1,2-Trichloroethane	mg/l	0.0242	0.0239	97.0	77.7-118	1.11	20	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0248	0.0245	99.0	67.2-143	1.36	20	WG746491
1,1-Dichloroethane	mg/l	0.0235	0.0235	94.0	70.7-126	0.180	20	WG746491
1,1-Dichloroethene	mg/l	0.0228	0.0225	91.0	67.8-129	1.02	20	WG746491
1,1-Dichloropropene	mg/l	0.0239	0.0241	96.0	73.1-125	0.690	20	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0210	0.0210	84.0	64.9-135	0.190	20	WG746491
1,2,3-Trichloropropane	mg/l	0.0257	0.0242	103.	71.8-121	5.76	20	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0228	0.0228	91.0	72.3-116	0.0800	20	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0220	0.0215	88.0	69.7-136	1.96	20	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0259	0.0251	104.	75-123	3.18	20	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0193	0.0192	77.0	65.4-128	0.620	20	WG746491
1,2-Dibromoethane	mg/l	0.0256	0.0249	102.	76.6-121	2.74	20	WG746491
1,2-Dichlorobenzene	mg/l	0.0239	0.0241	96.0	78.4-117	0.780	20	WG746491
1,2-Dichloroethane	mg/l	0.0244	0.0245	98.0	68.8-124	0.300	20	WG746491
1,2-Dichloropropane	mg/l	0.0242	0.0241	97.0	76.5-119	0.500	20	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0259	0.0257	104.	75.6-124	0.970	20	WG746491
1,3-Dichlorobenzene	mg/l	0.0271	0.0266	108.	70.8-128	1.84	20	WG746491
1,3-Dichloropropane	mg/l	0.0242	0.0231	97.0	77.4-117	4.52	20	WG746491
1,4-Dichlorobenzene	mg/l	0.0235	0.0233	94.0	78.8-115	0.910	20	WG746491
2,2-Dichloropropane	mg/l	0.0241	0.0251	96.0	62.4-133	4.00	20	WG746491
2-Butanone (MEK)	mg/l	0.0928	0.0945	74.0	55-149	1.76	20	WG746491
2-Chloroethyl vinyl ether	mg/l	0.120	0.119	96.0	43.8-150	0.870	20	WG746491
2-Chlorotoluene	mg/l	0.0270	0.0262	108.	74.7-122	2.90	20	WG746491
4-Chlorotoluene	mg/l	0.0251	0.0242	100.	77.5-120	3.70	20	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.105	0.104	84.0	70.5-133	0.620	20	WG746491
Acetone	mg/l	0.100	0.0983	80.0	35.6-163	1.78	23.9	WG746491
Acrolein	mg/l	0.108	0.109	87.0	10-190	0.620	28.1	WG746491
Acrylonitrile	mg/l	0.100	0.102	80.0	55.2-130	1.37	20	WG746491
Benzene	mg/l	0.0239	0.0241	96.0	74.8-121	0.560	20	WG746491
Bromobenzene	mg/l	0.0243	0.0237	97.0	77.5-116	2.34	20	WG746491
Bromodichloromethane	mg/l	0.0243	0.0243	97.0	75.1-116	0.0800	20	WG746491
Bromoform	mg/l	0.0248	0.0244	99.0	67.5-130	1.65	20	WG746491
Bromomethane	mg/l	0.0231	0.0243	92.0	49.9-162	4.96	20	WG746491
Carbon tetrachloride	mg/l	0.0233	0.0233	93.0	70.2-123	0.0500	20	WG746491
Chlorobenzene	mg/l	0.0259	0.0250	104.	78.1-119	3.81	20	WG746491
Chlorodibromomethane	mg/l	0.0252	0.0246	101.	74-121	2.41	20	WG746491
Chloroethane	mg/l	0.0210	0.0218	84.0	61.7-135	3.85	20	WG746491
Chloroform	mg/l	0.0235	0.0236	94.0	76-121	0.270	20	WG746491

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Level II

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Chloromethane	mg/l	0.0207	0.0205	83.0	61.5-129	0.820	20	WG746491
cis-1,2-Dichloroethene	mg/l	0.0251	0.0250	100.	76-119	0.620	20	WG746491
cis-1,3-Dichloropropene	mg/l	0.0240	0.0243	96.0	78.2-120	1.14	20	WG746491
Di-isopropyl ether	mg/l	0.0217	0.0216	87.0	65.6-132	0.260	20	WG746491
Dibromomethane	mg/l	0.0252	0.0247	101.	79.5-118	1.86	20	WG746491
Dichlorodifluoromethane	mg/l	0.0206	0.0210	82.0	54.8-135	2.35	20	WG746491
Ethylbenzene	mg/l	0.0265	0.0253	106.	78.8-122	4.59	20	WG746491
Hexachloro-1,3-butadiene	mg/l	0.0236	0.0234	94.0	64.7-129	0.840	20	WG746491
Isopropylbenzene	mg/l	0.0262	0.0254	105.	78.6-132	3.27	20	WG746491
Methyl tert-butyl ether	mg/l	0.0238	0.0240	95.0	71.2-126	0.590	20	WG746491
Methylene Chloride	mg/l	0.0227	0.0225	91.0	70.3-120	0.560	20	WG746491
n-Butylbenzene	mg/l	0.0232	0.0230	93.0	76.2-126	0.840	20	WG746491
n-Propylbenzene	mg/l	0.0258	0.0250	103.	78.2-122	3.39	20	WG746491
Naphthalene	mg/l	0.0195	0.0196	78.0	68.4-128	1.00	20	WG746491
p-Isopropyltoluene	mg/l	0.0271	0.0264	108.	74-131	2.41	20	WG746491
sec-Butylbenzene	mg/l	0.0267	0.0259	107.	74.4-127	3.02	20	WG746491
Styrene	mg/l	0.0255	0.0247	102.	80.4-126	3.27	20	WG746491
tert-Butylbenzene	mg/l	0.0270	0.0265	108.	75.3-126	1.51	20	WG746491
Tetrachloroethene	mg/l	0.0271	0.0262	108.	72.6-126	3.52	20	WG746491
Toluene	mg/l	0.0243	0.0240	97.0	79.7-116	1.35	20	WG746491
trans-1,2-Dichloroethene	mg/l	0.0241	0.0236	96.0	72.6-121	2.20	20	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0230	93.0	74.3-123	1.53	20	WG746491
Trichloroethene	mg/l	0.0272	0.0268	109.	77.7-118	1.43	20	WG746491
Trichlorofluoromethane	mg/l	0.0242	0.0246	97.0	63.5-135	1.67	20	WG746491
Vinyl chloride	mg/l	0.0223	0.0228	89.0	65.9-128	2.38	20	WG746491
Xylenes, Total	mg/l	0.0791	0.0766	105.	78.7-121	3.20	20	WG746491
4-Bromofluorobenzene				103.0	71-126			WG746491
Dibromofluoromethane				99.90	78.3-121			WG746491
Toluene-d8				105.0	88.5-111			WG746491

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.124	0.0	.025	99.0	64-128	L725162-06	WG746509
1,1,1-Trichloroethane	mg/kg	0.131	0.0	.025	100.	58.7-134	L725162-06	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.125	0.0	.025	100.	56-132	L725162-06	WG746509
1,1,2-Trichloroethane	mg/kg	0.131	0.0	.025	100.	66.3-125	L725162-06	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.141	0.0	.025	110.	54.8-154	L725162-06	WG746509
1,1-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	58.5-132	L725162-06	WG746509
1,1-Dichloroethene	mg/kg	0.128	0.0	.025	100.	51.1-140	L725162-06	WG746509
1,1-Dichloropropene	mg/kg	0.123	0.0	.025	98.0	57.3-136	L725162-06	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.110	0.000847	.025	88.0	59.1-138	L725162-06	WG746509
1,2,3-Trichloropropane	mg/kg	0.117	0.0	.025	94.0	61.4-128	L725162-06	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.128	0.0	.025	100.	61.3-122	L725162-06	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.116	0.0	.025	92.0	63.6-143	L725162-06	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.129	0.0	.025	100.	57.4-137	L725162-06	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.118	0.0	.025	94.0	57.3-136	L725162-06	WG746509
1,2-Dibromoethane	mg/kg	0.122	0.0	.025	98.0	67.1-125	L725162-06	WG746509
1,2-Dichlorobenzene	mg/kg	0.130	0.0	.025	100.	68.2-123	L725162-06	WG746509
1,2-Dichloroethane	mg/kg	0.115	0.0	.025	92.0	60-126	L725162-06	WG746509
1,2-Dichloropropane	mg/kg	0.115	0.0	.025	92.0	64.2-123	L725162-06	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.131	0.0	.025	100.	63.6-132	L725162-06	WG746509
1,3-Dichlorobenzene	mg/kg	0.129	0.0	.025	100.	63.1-131	L725162-06	WG746509
1,3-Dichloropropane	mg/kg	0.118	0.0	.025	94.0	67.9-121	L725162-06	WG746509
1,4-Dichlorobenzene	mg/kg	0.130	0.0	.025	100.	68.6-123	L725162-06	WG746509
2,2-Dichloropropane	mg/kg	0.125	0.0	.025	100.	50.5-144	L725162-06	WG746509
2-Butanone (MEK)	mg/kg	0.498	0.0	.125	80.0	22.4-138	L725162-06	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.561	0.0	.125	90.0	10-155	L725162-06	WG746509
2-Chlorotoluene	mg/kg	0.132	0.0	.025	110.	63.6-128	L725162-06	WG746509

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Est. 1970

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Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
4-Chlorotoluene	mg/kg	0.129	0.0	.025	100.	65.7-127	L725162-06	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.517	0.0	.125	83.0	60.8-140	L725162-06	WG746509
Acetone	mg/kg	0.539	0.0400	.125	80.0	10-130	L725162-06	WG746509
Acrylonitrile	mg/kg	0.537	0.0	.125	86.0	49.4-133	L725162-06	WG746509
Benzene	mg/kg	0.118	0.0	.025	95.0	54.3-133	L725162-06	WG746509
Bromobenzene	mg/kg	0.127	0.0	.025	100.	63.9-124	L725162-06	WG746509
Bromodichloromethane	mg/kg	0.119	0.0	.025	96.0	63.9-121	L725162-06	WG746509
Bromoform	mg/kg	0.125	0.0	.025	100.	59.5-134	L725162-06	WG746509
Bromomethane	mg/kg	0.170	0.0	.025	140.	41.7-155	L725162-06	WG746509
Carbon tetrachloride	mg/kg	0.123	0.0	.025	98.0	55.7-134	L725162-06	WG746509
Chlorobenzene	mg/kg	0.127	0.0	.025	100.	67-125	L725162-06	WG746509
Chlorodibromomethane	mg/kg	0.119	0.0	.025	95.0	64.3-125	L725162-06	WG746509
Chloroethane	mg/kg	0.144	0.0	.025	120.	51.5-136	L725162-06	WG746509
Chloroform	mg/kg	0.119	0.0	.025	95.0	63-129	L725162-06	WG746509
Chloromethane	mg/kg	0.117	0.0	.025	94.0	42.4-135	L725162-06	WG746509
cis-1,2-Dichloroethene	mg/kg	0.122	0.0	.025	98.0	59.2-129	L725162-06	WG746509
cis-1,3-Dichloropropene	mg/kg	0.115	0.0	.025	92.0	66.4-125	L725162-06	WG746509
Di-isopropyl ether	mg/kg	0.113	0.0	.025	90.0	56.9-136	L725162-06	WG746509
Dibromomethane	mg/kg	0.112	0.0	.025	90.0	68.2-124	L725162-06	WG746509
Dichlorodifluoromethane	mg/kg	0.147	0.0	.025	120.	40.6-144	L725162-06	WG746509
Ethylbenzene	mg/kg	0.133	0.0	.025	110.	61.4-133	L725162-06	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.117	0.0	.025	94.0	55.1-136	L725162-06	WG746509
Isopropylbenzene	mg/kg	0.134	0.0	.025	110.	66.8-141	L725162-06	WG746509
Methyl tert-butyl ether	mg/kg	0.111	0.0	.025	89.0	57.7-134	L725162-06	WG746509
Methylene Chloride	mg/kg	0.111	0.000579	.025	89.0	58.1-122	L725162-06	WG746509
n-Butylbenzene	mg/kg	0.128	0.0	.025	100.	62.7-140	L725162-06	WG746509
n-Propylbenzene	mg/kg	0.134	0.0	.025	110.	10-176	L725162-06	WG746509
Naphthalene	mg/kg	0.110	0.00103	.025	87.0	58-135	L725162-06	WG746509
p-Isopropyltoluene	mg/kg	0.129	0.0	.025	100.	63.2-139	L725162-06	WG746509
sec-Butylbenzene	mg/kg	0.137	0.0	.025	110.	62.2-136	L725162-06	WG746509
Styrene	mg/kg	0.132	0.0	.025	110.	66.8-133	L725162-06	WG746509
tert-Butylbenzene	mg/kg	0.132	0.0	.025	100.	63.3-134	L725162-06	WG746509
Tetrachloroethene	mg/kg	0.143	0.0	.025	110.	53-139	L725162-06	WG746509
Toluene	mg/kg	0.122	0.000419	.025	97.0	61.4-130	L725162-06	WG746509
trans-1,2-Dichloroethene	mg/kg	0.125	0.0	.025	100.	56.5-129	L725162-06	WG746509
trans-1,3-Dichloropropene	mg/kg	0.110	0.0	.025	88.0	64.1-128	L725162-06	WG746509
Trichloroethene	mg/kg	0.129	0.0	.025	100.	44.1-149	L725162-06	WG746509
Trichlorofluoromethane	mg/kg	0.150	0.0	.025	120.	49.6-145	L725162-06	WG746509
Vinyl chloride	mg/kg	0.140	0.0	.025	110.	47.8-137	L725162-06	WG746509
Xylenes, Total	mg/kg	0.401	0.0	.075	110.	63.3-131	L725162-06	WG746509
4-Bromofluorobenzene					102.0	71-126		WG746509
Dibromofluoromethane					99.60	78.3-121		WG746509
Toluene-d8					111.0	88.5-111		WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0264	0.0	.025	110.	64-128	L725128-09	WG746491
1,1,1-Trichloroethane	mg/l	0.0264	0.0	.025	110.	58.7-134	L725128-09	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0243	0.0	.025	97.0	56-132	L725128-09	WG746491
1,1,2-Trichloroethane	mg/l	0.0251	0.0	.025	100.	66.3-125	L725128-09	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0270	0.0	.025	110.	54.8-154	L725128-09	WG746491
1,1-Dichloroethane	mg/l	0.0252	0.0	.025	100.	58.5-132	L725128-09	WG746491
1,1-Dichloroethene	mg/l	0.0247	0.0	.025	99.0	51.1-140	L725128-09	WG746491
1,1-Dichloropropene	mg/l	0.0258	0.0	.025	100.	57.3-136	L725128-09	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0181	0.0	.025	73.0	59.1-138	L725128-09	WG746491
1,2,3-Trichloropropane	mg/l	0.0255	0.0	.025	100.	61.4-128	L725128-09	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0223	0.0	.025	89.0	61.3-122	L725128-09	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0186	0.0	.025	74.0	63.6-143	L725128-09	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0253	0.0	.025	100.	57.4-137	L725128-09	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0200	0.0	.025	80.0	57.3-136	L725128-09	WG746491

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Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dibromoethane	mg/l	0.0261	0.0	.025	100.	67.1-125	L725128-09	WG746491
1,2-Dichlorobenzene	mg/l	0.0234	0.0	.025	94.0	68.2-123	L725128-09	WG746491
1,2-Dichloroethane	mg/l	0.0255	0.0	.025	100.	60-126	L725128-09	WG746491
1,2-Dichloropropane	mg/l	0.0252	0.0	.025	100.	64.2-123	L725128-09	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	63.6-132	L725128-09	WG746491
1,3-Dichlorobenzene	mg/l	0.0264	0.0	.025	100.	63.1-131	L725128-09	WG746491
1,3-Dichloropropane	mg/l	0.0245	0.0	.025	98.0	67.9-121	L725128-09	WG746491
1,4-Dichlorobenzene	mg/l	0.0231	0.0	.025	92.0	68.6-123	L725128-09	WG746491
2,2-Dichloropropane	mg/l	0.0257	0.0	.025	100.	50.5-144	L725128-09	WG746491
2-Butanone (MEK)	mg/l	0.0968	0.0	.125	78.0	22.4-138	L725128-09	WG746491
2-Chloroethyl vinyl ether	mg/l	0.00484	0.0	.125	3.90*	10-155	L725128-09	WG746491
2-Chlorotoluene	mg/l	0.0274	0.0	.025	110.	63.6-128	L725128-09	WG746491
4-Chlorotoluene	mg/l	0.0250	0.0	.025	100.	65.7-127	L725128-09	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.108	0.0	.125	87.0	60.8-140	L725128-09	WG746491
Acetone	mg/l	0.0921	0.00116	.125	73.0	10-130	L725128-09	WG746491
Acrolein	mg/l	0.117	0.0	.125	93.0	10-200	L725128-09	WG746491
Acrylonitrile	mg/l	0.108	0.0	.125	87.0	49.4-133	L725128-09	WG746491
Benzene	mg/l	0.0251	0.0	.025	100.	54.3-133	L725128-09	WG746491
Bromobenzene	mg/l	0.0243	0.0	.025	97.0	63.9-124	L725128-09	WG746491
Bromodichloromethane	mg/l	0.0244	0.0	.025	98.0	63.9-121	L725128-09	WG746491
Bromoform	mg/l	0.0260	0.0	.025	100.	59.5-134	L725128-09	WG746491
Bromomethane	mg/l	0.0218	0.0	.025	87.0	41.7-155	L725128-09	WG746491
Carbon tetrachloride	mg/l	0.0257	0.0	.025	100.	55.7-134	L725128-09	WG746491
Chlorobenzene	mg/l	0.0268	0.0	.025	110.	67-125	L725128-09	WG746491
Chlorodibromomethane	mg/l	0.0255	0.0	.025	100.	64.3-125	L725128-09	WG746491
Chloroethane	mg/l	0.0218	0.0	.025	87.0	51.5-136	L725128-09	WG746491
Chloroform	mg/l	0.0247	0.0	.025	99.0	63-129	L725128-09	WG746491
Chloromethane	mg/l	0.0190	0.0	.025	76.0	42.4-135	L725128-09	WG746491
cis-1,2-Dichloroethene	mg/l	0.0254	0.0	.025	100.	59.2-129	L725128-09	WG746491
cis-1,3-Dichloropropene	mg/l	0.0237	0.0	.025	95.0	66.4-125	L725128-09	WG746491
Di-isopropyl ether	mg/l	0.0224	0.0	.025	89.0	56.9-136	L725128-09	WG746491
Dibromomethane	mg/l	0.0254	0.0	.025	100.	68.2-124	L725128-09	WG746491
Dichlorodifluoromethane	mg/l	0.0177	0.0	.025	71.0	40.6-144	L725128-09	WG746491
Ethylbenzene	mg/l	0.0270	0.0	.025	110.	61.4-133	L725128-09	WG746491
Hexachloro-1,3-butadiene	mg/l	0.0222	0.0	.025	89.0	55.1-136	L725128-09	WG746491
Isopropylbenzene	mg/l	0.0274	0.0	.025	110.	66.8-141	L725128-09	WG746491
Methyl tert-butyl ether	mg/l	0.0240	0.0	.025	96.0	57.7-134	L725128-09	WG746491
Methylene Chloride	mg/l	0.0229	0.0	.025	92.0	58.1-122	L725128-09	WG746491
n-Butylbenzene	mg/l	0.0223	0.0	.025	89.0	62.7-140	L725128-09	WG746491
n-Propylbenzene	mg/l	0.0263	0.0	.025	100.	65.9-131	L725128-09	WG746491
Naphthalene	mg/l	0.0183	0.0	.025	73.0	58-135	L725128-09	WG746491
p-Isopropyltoluene	mg/l	0.0266	0.0	.025	110.	63.2-139	L725128-09	WG746491
sec-Butylbenzene	mg/l	0.0271	0.0	.025	110.	62.2-136	L725128-09	WG746491
Styrene	mg/l	0.0259	0.0	.025	100.	66.8-133	L725128-09	WG746491
tert-Butylbenzene	mg/l	0.0277	0.0	.025	110.	63.3-134	L725128-09	WG746491
Tetrachloroethene	mg/l	0.0283	0.0	.025	110.	53-139	L725128-09	WG746491
Toluene	mg/l	0.0254	0.0	.025	100.	61.4-130	L725128-09	WG746491
trans-1,2-Dichloroethene	mg/l	0.0246	0.0	.025	99.0	56.5-129	L725128-09	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0	.025	94.0	64.1-128	L725128-09	WG746491
Trichloroethene	mg/l	0.0282	0.0	.025	110.	44.1-149	L725128-09	WG746491
Trichlorofluoromethane	mg/l	0.0246	0.0	.025	98.0	49.6-145	L725128-09	WG746491
Vinyl chloride	mg/l	0.0222	0.0	.025	89.0	47.8-137	L725128-09	WG746491
Xylenes, Total	mg/l	0.0815	0.0	.075	110.	63.3-131	L725128-09	WG746491
4-Bromofluorobenzene					106.0	71-126		WG746491
Dibromofluoromethane					101.0	78.3-121		WG746491
Toluene-d8					105.0	88.5-111		WG746491

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Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.121	0.124	96.7	64-128	2.68	20	L725162-06	WG746509
1,1,1-Trichloroethane	mg/kg	0.124	0.131	99.3	58.7-134	5.34	20	L725162-06	WG746509
1,1,2,2-Tetrachloroethane	mg/kg	0.122	0.125	97.6	56-132	2.80	22.2	L725162-06	WG746509
1,1,2-Trichloroethane	mg/kg	0.129	0.131	103.	66.3-125	1.84	20	L725162-06	WG746509
1,1,2-Trichlorotrifluoroethane	mg/kg	0.132	0.141	105.	54.8-154	6.53	22.5	L725162-06	WG746509
1,1-Dichloroethane	mg/kg	0.113	0.115	90.6	58.5-132	1.56	20	L725162-06	WG746509
1,1-Dichloroethene	mg/kg	0.121	0.128	96.6	51.1-140	5.70	20.2	L725162-06	WG746509
1,1-Dichloropropene	mg/kg	0.117	0.123	94.0	57.3-136	4.41	20	L725162-06	WG746509
1,2,3-Trichlorobenzene	mg/kg	0.106	0.110	83.8	59.1-138	4.55	23.7	L725162-06	WG746509
1,2,3-Trichloropropane	mg/kg	0.115	0.117	91.7	61.4-128	1.99	22.4	L725162-06	WG746509
1,2,3-Trimethylbenzene	mg/kg	0.124	0.128	99.0	61.3-122	3.03	20	L725162-06	WG746509
1,2,4-Trichlorobenzene	mg/kg	0.109	0.116	86.9	63.6-143	6.21	21.9	L725162-06	WG746509
1,2,4-Trimethylbenzene	mg/kg	0.121	0.129	96.6	57.4-137	6.25	20	L725162-06	WG746509
1,2-Dibromo-3-Chloropropane	mg/kg	0.117	0.118	93.8	57.3-136	0.730	27	L725162-06	WG746509
1,2-Dibromoethane	mg/kg	0.119	0.122	95.0	67.1-125	2.65	20	L725162-06	WG746509
1,2-Dichlorobenzene	mg/kg	0.126	0.130	101.	68.2-123	2.95	20	L725162-06	WG746509
1,2-Dichloroethane	mg/kg	0.114	0.115	91.5	60-126	0.610	20	L725162-06	WG746509
1,2-Dichloropropane	mg/kg	0.111	0.115	89.2	64.2-123	2.96	20	L725162-06	WG746509
1,3,5-Trimethylbenzene	mg/kg	0.123	0.131	98.6	63.6-132	6.33	20.5	L725162-06	WG746509
1,3-Dichlorobenzene	mg/kg	0.123	0.129	98.4	63.1-131	4.88	20	L725162-06	WG746509
1,3-Dichloropropane	mg/kg	0.117	0.118	93.2	67.9-121	1.09	20	L725162-06	WG746509
1,4-Dichlorobenzene	mg/kg	0.124	0.130	99.1	68.6-123	5.12	20	L725162-06	WG746509
2,2-Dichloropropane	mg/kg	0.118	0.125	94.8	50.5-144	5.67	21.9	L725162-06	WG746509
2-Butanone (MEK)	mg/kg	0.487	0.498	78.0	22.4-138	2.22	27	L725162-06	WG746509
2-Chloroethyl vinyl ether	mg/kg	0.548	0.561	87.6	10-155	2.37	40	L725162-06	WG746509
2-Chlorotoluene	mg/kg	0.125	0.132	100.	63.6-128	5.49	20	L725162-06	WG746509
4-Chlorotoluene	mg/kg	0.121	0.129	97.1	65.7-127	6.03	20	L725162-06	WG746509
4-Methyl-2-pentanone (MIBK)	mg/kg	0.516	0.517	82.6	60.8-140	0.270	25.1	L725162-06	WG746509
Acetone	mg/kg	0.494	0.539	72.7	10-130	8.68	27.9	L725162-06	WG746509
Acrylonitrile	mg/kg	0.523	0.537	83.7	49.4-133	2.58	25.3	L725162-06	WG746509
Benzene	mg/kg	0.114	0.118	91.4	54.3-133	3.46	20	L725162-06	WG746509
Bromobenzene	mg/kg	0.119	0.127	95.4	63.9-124	6.08	20	L725162-06	WG746509
Bromodichloromethane	mg/kg	0.116	0.119	92.8	63.9-121	2.89	20	L725162-06	WG746509
Bromoform	mg/kg	0.121	0.125	97.0	59.5-134	2.89	20.8	L725162-06	WG746509
Bromomethane	mg/kg	0.173	0.170	138.	41.7-155	1.68	20.5	L725162-06	WG746509
Carbon tetrachloride	mg/kg	0.118	0.123	94.0	55.7-134	4.49	20.3	L725162-06	WG746509
Chlorobenzene	mg/kg	0.122	0.127	97.6	67-125	3.72	20	L725162-06	WG746509
Chlorodibromomethane	mg/kg	0.118	0.119	94.2	64.3-125	1.14	20	L725162-06	WG746509
Chloroethane	mg/kg	0.135	0.144	108.	51.5-136	6.88	20.8	L725162-06	WG746509
Chloroform	mg/kg	0.115	0.119	91.7	63-129	3.73	20	L725162-06	WG746509
Chloromethane	mg/kg	0.114	0.117	91.2	42.4-135	2.93	20	L725162-06	WG746509
cis-1,2-Dichloroethene	mg/kg	0.118	0.122	94.4	59.2-129	3.41	20	L725162-06	WG746509
cis-1,3-Dichloropropene	mg/kg	0.112	0.115	89.6	66.4-125	2.29	20	L725162-06	WG746509
Di-isopropyl ether	mg/kg	0.111	0.113	88.5	56.9-136	1.89	20	L725162-06	WG746509
Dibromomethane	mg/kg	0.108	0.112	86.1	68.2-124	3.87	20	L725162-06	WG746509
Dichlorodifluoromethane	mg/kg	0.136	0.147	108.	40.6-144	7.87	20.2	L725162-06	WG746509
Ethylbenzene	mg/kg	0.126	0.133	101.	61.4-133	5.26	20	L725162-06	WG746509
Hexachloro-1,3-butadiene	mg/kg	0.106	0.117	84.5	55.1-136	10.2	23.6	L725162-06	WG746509
Isopropylbenzene	mg/kg	0.127	0.134	102.	66.8-141	4.79	20	L725162-06	WG746509
Methyl tert-butyl ether	mg/kg	0.110	0.111	88.1	57.7-134	1.10	20	L725162-06	WG746509
Methylene Chloride	mg/kg	0.105	0.111	83.6	58.1-122	5.83	20	L725162-06	WG746509
n-Butylbenzene	mg/kg	0.121	0.128	96.9	62.7-140	5.38	20	L725162-06	WG746509
n-Propylbenzene	mg/kg	0.123	0.134	98.5	10-176	8.60	26.6	L725162-06	WG746509
Naphthalene	mg/kg	0.110	0.110	87.2	58-135	0.270	25.5	L725162-06	WG746509
p-Isopropyltoluene	mg/kg	0.122	0.129	97.3	63.2-139	5.74	20.4	L725162-06	WG746509
sec-Butylbenzene	mg/kg	0.128	0.137	103.	62.2-136	6.13	20.3	L725162-06	WG746509
Styrene	mg/kg	0.125	0.132	99.7	66.8-133	6.01	20	L725162-06	WG746509
tert-Butylbenzene	mg/kg	0.128	0.132	102.	63.3-134	2.73	20.3	L725162-06	WG746509
Tetrachloroethene	mg/kg	0.134	0.143	107.	53-139	6.35	20	L725162-06	WG746509
Toluene	mg/kg	0.116	0.122	92.3	61.4-130	5.17	20	L725162-06	WG746509

* Performance of this Analyte is outside of established criteria.
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Est. 1970

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Seattle, WA 98161

Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
trans-1,2-Dichloroethene	mg/kg	0.120	0.125	95.9	56.5-129	3.87	20	L725162-06	WG746509
trans-1,3-Dichloropropene	mg/kg	0.104	0.110	83.5	64.1-128	4.85	20	L725162-06	WG746509
Trichloroethene	mg/kg	0.123	0.129	98.3	44.1-149	5.18	20	L725162-06	WG746509
Trichlorofluoromethane	mg/kg	0.138	0.150	110.	49.6-145	8.05	21.2	L725162-06	WG746509
Vinyl chloride	mg/kg	0.132	0.140	105.	47.8-137	6.24	20	L725162-06	WG746509
Xylenes, Total	mg/kg	0.377	0.401	100.	63.3-131	6.27	20	L725162-06	WG746509
4-Bromofluorobenzene				101.0	71-126				WG746509
Dibromofluoromethane				99.70	78.3-121				WG746509
Toluene-d8				110.0	88.5-111				WG746509
1,1,1,2-Tetrachloroethane	mg/l	0.0253	0.0264	101.	64-128	4.42	20	L725128-09	WG746491
1,1,1-Trichloroethane	mg/l	0.0253	0.0264	101.	58.7-134	4.12	20	L725128-09	WG746491
1,1,2,2-Tetrachloroethane	mg/l	0.0234	0.0243	93.8	56-132	3.53	22.2	L725128-09	WG746491
1,1,2-Trichloroethane	mg/l	0.0239	0.0251	95.7	66.3-125	4.75	20	L725128-09	WG746491
1,1,2-Trichlorotrifluoroethane	mg/l	0.0264	0.0270	106.	54.8-154	2.12	22.5	L725128-09	WG746491
1,1-Dichloroethane	mg/l	0.0245	0.0252	98.1	58.5-132	2.81	20	L725128-09	WG746491
1,1-Dichloroethene	mg/l	0.0237	0.0247	94.7	51.1-140	4.20	20.2	L725128-09	WG746491
1,1-Dichloropropene	mg/l	0.0247	0.0258	98.8	57.3-136	4.33	20	L725128-09	WG746491
1,2,3-Trichlorobenzene	mg/l	0.0197	0.0181	78.9	59.1-138	8.36	23.7	L725128-09	WG746491
1,2,3-Trichloropropane	mg/l	0.0251	0.0255	100.	61.4-128	1.61	22.4	L725128-09	WG746491
1,2,3-Trimethylbenzene	mg/l	0.0226	0.0223	90.5	61.3-122	1.61	20	L725128-09	WG746491
1,2,4-Trichlorobenzene	mg/l	0.0203	0.0186	81.1	63.6-143	8.68	21.9	L725128-09	WG746491
1,2,4-Trimethylbenzene	mg/l	0.0243	0.0253	97.0	57.4-137	4.15	20	L725128-09	WG746491
1,2-Dibromo-3-Chloropropane	mg/l	0.0202	0.0200	80.6	57.3-136	0.710	27	L725128-09	WG746491
1,2-Dibromoethane	mg/l	0.0246	0.0261	98.3	67.1-125	6.21	20	L725128-09	WG746491
1,2-Dichlorobenzene	mg/l	0.0242	0.0234	96.8	68.2-123	3.34	20	L725128-09	WG746491
1,2-Dichloroethane	mg/l	0.0248	0.0255	99.3	60-126	2.62	20	L725128-09	WG746491
1,2-Dichloropropane	mg/l	0.0245	0.0252	98.0	64.2-123	2.84	20	L725128-09	WG746491
1,3,5-Trimethylbenzene	mg/l	0.0251	0.0262	100.	63.6-132	4.29	20.5	L725128-09	WG746491
1,3-Dichlorobenzene	mg/l	0.0252	0.0264	101.	63.1-131	4.52	20	L725128-09	WG746491
1,3-Dichloropropane	mg/l	0.0232	0.0245	92.8	67.9-121	5.65	20	L725128-09	WG746491
1,4-Dichlorobenzene	mg/l	0.0234	0.0231	93.5	68.6-123	1.17	20	L725128-09	WG746491
2,2-Dichloropropane	mg/l	0.0254	0.0257	102.	50.5-144	0.880	21.9	L725128-09	WG746491
2-Butanone (MEK)	mg/l	0.0944	0.0968	75.5	22.4-138	2.52	27	L725128-09	WG746491
2-Chloroethyl vinyl ether	mg/l	0.00520	0.00484	4.16*	10-155	7.05	20	L725128-09	WG746491
2-Chlorotoluene	mg/l	0.0262	0.0274	105.	63.6-128	4.62	20	L725128-09	WG746491
4-Chlorotoluene	mg/l	0.0234	0.0250	93.8	65.7-127	6.53	20	L725128-09	WG746491
4-Methyl-2-pentanone (MIBK)	mg/l	0.109	0.108	87.5	60.8-140	0.820	25.1	L725128-09	WG746491
Acetone	mg/l	0.0910	0.0921	71.9	10-130	1.15	27.9	L725128-09	WG746491
Acrolein	mg/l	0.113	0.117	90.3	10-200	3.24	27.7	L725128-09	WG746491
Acrylonitrile	mg/l	0.106	0.108	84.6	49.4-133	2.53	25.3	L725128-09	WG746491
Benzene	mg/l	0.0241	0.0251	96.3	54.3-133	4.00	20	L725128-09	WG746491
Bromobenzene	mg/l	0.0234	0.0243	93.6	63.9-124	3.72	20	L725128-09	WG746491
Bromodichloromethane	mg/l	0.0240	0.0244	96.1	63.9-121	1.65	20	L725128-09	WG746491
Bromoform	mg/l	0.0241	0.0260	96.4	59.5-134	7.81	20.5	L725128-09	WG746491
Bromomethane	mg/l	0.0222	0.0218	89.0	41.7-155	2.12	21.9	L725128-09	WG746491
Carbon tetrachloride	mg/l	0.0244	0.0257	97.4	55.7-134	5.33	20	L725128-09	WG746491
Chlorobenzene	mg/l	0.0249	0.0268	99.5	67-125	7.42	20	L725128-09	WG746491
Chlorodibromomethane	mg/l	0.0241	0.0255	96.4	64.3-125	5.75	20.8	L725128-09	WG746491
Chloroethane	mg/l	0.0205	0.0218	82.1	51.5-136	6.03	40	L725128-09	WG746491
Chloroform	mg/l	0.0238	0.0247	95.0	63-129	4.06	20	L725128-09	WG746491
Chloromethane	mg/l	0.0194	0.0190	77.7	42.4-135	2.47	20	L725128-09	WG746491
cis-1,2-Dichloroethene	mg/l	0.0252	0.0254	101.	59.2-129	0.870	20	L725128-09	WG746491
cis-1,3-Dichloropropene	mg/l	0.0238	0.0237	95.0	66.4-125	0.330	20	L725128-09	WG746491
Di-isopropyl ether	mg/l	0.0221	0.0224	88.4	56.9-136	1.19	20	L725128-09	WG746491
Dibromomethane	mg/l	0.0257	0.0254	103.	68.2-124	1.37	20	L725128-09	WG746491
Dichlorodifluoromethane	mg/l	0.0180	0.0177	72.2	40.6-144	1.70	20.2	L725128-09	WG746491
Ethylbenzene	mg/l	0.0257	0.0270	103.	61.4-133	4.94	20	L725128-09	WG746491

* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L725230

October 07, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Hexachloro-1,3-butadiene	mg/l	0.0232	0.0222	92.9	55.1-136	4.61	23.6	L725128-09	WG746491
Isopropylbenzene	mg/l	0.0257	0.0274	103.	66.8-141	6.62	20	L725128-09	WG746491
Methyl tert-butyl ether	mg/l	0.0239	0.0240	95.6	57.7-134	0.420	20	L725128-09	WG746491
Methylene Chloride	mg/l	0.0229	0.0229	91.4	58.1-122	0.180	20	L725128-09	WG746491
n-Butylbenzene	mg/l	0.0227	0.0223	90.8	62.7-140	1.64	20.3	L725128-09	WG746491
n-Propylbenzene	mg/l	0.0250	0.0263	99.8	65.9-131	5.35	20	L725128-09	WG746491
Naphthalene	mg/l	0.0196	0.0183	78.3	58-135	6.68	25.5	L725128-09	WG746491
p-Isopropyltoluene	mg/l	0.0259	0.0266	104.	63.2-139	2.60	20.4	L725128-09	WG746491
sec-Butylbenzene	mg/l	0.0258	0.0271	103.	62.2-136	4.92	20.3	L725128-09	WG746491
Styrene	mg/l	0.0240	0.0259	96.2	66.8-133	7.48	20	L725128-09	WG746491
tert-Butylbenzene	mg/l	0.0266	0.0277	106.	63.3-134	4.27	21	L725128-09	WG746491
Tetrachloroethene	mg/l	0.0257	0.0283	103.	53-139	9.69	20	L725128-09	WG746491
Toluene	mg/l	0.0248	0.0254	99.4	61.4-130	2.30	20	L725128-09	WG746491
trans-1,2-Dichloroethene	mg/l	0.0244	0.0246	97.5	56.5-129	1.09	20	L725128-09	WG746491
trans-1,3-Dichloropropene	mg/l	0.0234	0.0234	93.6	64.1-128	0.130	20	L725128-09	WG746491
Trichloroethene	mg/l	0.0277	0.0282	111.	44.1-149	1.78	20	L725128-09	WG746491
Trichlorofluoromethane	mg/l	0.0233	0.0246	93.2	49.6-145	5.52	21.2	L725128-09	WG746491
Vinyl chloride	mg/l	0.0213	0.0222	85.1	47.8-137	4.33	20	L725128-09	WG746491
Xylenes, Total	mg/l	0.0763	0.0815	102.	63.3-131	6.64	20	L725128-09	WG746491
4-Bromofluorobenzene				100.0	71-126				WG746491
Dibromofluoromethane				102.0	78.3-121				WG746491
Toluene-d8				106.0	88.5-111				WG746491

Batch number /Run number / Sample number cross reference

WG746776: R2995220: L725230-01 02 03 04
WG746509: R2995490: L725230-01 02 03 04
WG746491: R2995526: L725230-05

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
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Quality Assurance Report
Level II

L725230

October 07, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

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

Report to: Matt Dahl

Email To: mdahl@pesenv.com; tremlich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMANDY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Time	Date	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-30-5	Grab	SS	5	856	9-25-14	4	X	X			-01
AS-21-5	Grab	SS	5	1524	9-25-14	4	X	X			-02
AS-6-5	Grab	SS	5	1145	9-26-14	4	X	X			-03
AS-2-5	Grab	SS	5	0915	9-29-14	4	X	X			-04
		SS	5			4	X	X			
TRIP BLANK		GW				1			X		-05

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____ 6089 7181 1861

Flow _____ Other _____

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10-1-14	1110	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ _____

Temp: 3.7 °C Bottles Received: 17

Date: 10/2/14 Time: 840

Chain of Custody Page ___ of ___

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L# L725230

E240

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483489
TSR: 359 - Jarred Willis
PB:
Shipped Via: FedEx Ground

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Matt Dahl
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Seattle, WA 98161

Report Summary

Thursday October 09, 2014

Report Number: L725249
Samples Received: 10/02/14
Client Project: 1358.001.01.009

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Daphne R Richards

Daphne Richards , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-10-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 08:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.8		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.056	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0056	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0056	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0056	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.009

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-10-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 08:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0056	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0056	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0056	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0034	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.3		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	86.5		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-21-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 08:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.0		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0054	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-21-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 08:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0054	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0034	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	99.8		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.9		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	87.5		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-15-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 09:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.7		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-15-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 09:25

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0018	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	99.4		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.3		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	87.5		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-25-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 09:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.6		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0054	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-25-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 09:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0054	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0017	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	98.8		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.7		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	86.2		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-11-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 10:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.8		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-11-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 10:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0011	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.8		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	83.3		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 10:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.2		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	0.062	0.055	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 10:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0066	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.6		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	87.1		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-8 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 11:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.5		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-8 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 11:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0052	0.0010	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	98.0		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	98.6		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	86.0		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-08

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-12-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	86.9		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.058	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.012	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0012	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0058	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0058	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.058	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0058	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0029	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0058	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0058	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-08

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-12-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0058	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0058	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0017	0.0012	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0058	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0058	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0029	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0012	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0034	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	99.7		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	101.		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	89.7		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
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REPORT OF ANALYSIS

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1215 Fourth Ave., Suite 1350
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October 09,2014

ESC Sample # : L725249-09

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.5		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-09

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-3 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0028	0.0011	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	99.7		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.7		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	88.7		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/09/14 14:10 Printed: 10/09/14 14:11

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-10

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-8 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.1		%	2540 G-2011	10/05/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/09/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/09/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/09/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/09/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/09/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/09/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/09/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/09/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/09/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/09/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/09/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/09/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 09,2014

ESC Sample # : L725249-10

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 02, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-8 FT

Collected By : JoAnne Ellis
Collection Date : 10/01/14 12:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/09/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/09/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/09/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/09/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/09/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/09/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Tetrachloroethene	0.0022	0.0010	mg/kg	8260C	10/09/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/09/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/09/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/09/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/09/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/09/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/09/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/09/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/09/14	1
Dibromofluoromethane	97.8		% Rec.	8260C	10/09/14	1
4-Bromofluorobenzene	88.6		% Rec.	8260C	10/09/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Summary of Remarks For Samples Printed
10/09/14 at 14:11:16

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L725249-01 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-02 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-03 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-04 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-05 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-06 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-07 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-08 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-09 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

Sample: L725249-10 Account: PESENVSWA Received: 10/02/14 09:00 Due Date: 10/09/14 00:00 RPT Date: 10/09/14 14:10

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Seattle, WA 98161

Quality Assurance Report
Level II

L725249

October 09, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG746776	10/05/14 16:18
Total Solids	< .1	%			WG746834	10/05/14 17:30
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1,1-Trichloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1,2-Trichloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1-Dichloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,1-Dichloroethene	< .001	mg/kg			WG746511	10/08/14 23:57
1,1-Dichloropropene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2,3-Trichlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2,3-Trichloropropane	< .0025	mg/kg			WG746511	10/08/14 23:57
1,2,3-Trimethylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2,4-Trichlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2,4-Trimethylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG746511	10/08/14 23:57
1,2-Dibromoethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,2-Dichlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,2-Dichloroethane	< .001	mg/kg			WG746511	10/08/14 23:57
1,2-Dichloropropane	< .001	mg/kg			WG746511	10/08/14 23:57
1,3,5-Trimethylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,3-Dichlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
1,3-Dichloropropane	< .001	mg/kg			WG746511	10/08/14 23:57
1,4-Dichlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
2,2-Dichloropropane	< .001	mg/kg			WG746511	10/08/14 23:57
2-Butanone (MEK)	< .01	mg/kg			WG746511	10/08/14 23:57
2-Chloroethyl vinyl ether	< .05	mg/kg			WG746511	10/08/14 23:57
2-Chlorotoluene	< .001	mg/kg			WG746511	10/08/14 23:57
4-Chlorotoluene	< .001	mg/kg			WG746511	10/08/14 23:57
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG746511	10/08/14 23:57
Acetone	< .05	mg/kg			WG746511	10/08/14 23:57
Acrylonitrile	< .01	mg/kg			WG746511	10/08/14 23:57
Benzene	< .001	mg/kg			WG746511	10/08/14 23:57
Bromobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Bromodichloromethane	< .001	mg/kg			WG746511	10/08/14 23:57
Bromoform	< .001	mg/kg			WG746511	10/08/14 23:57
Bromomethane	< .005	mg/kg			WG746511	10/08/14 23:57
Carbon tetrachloride	< .001	mg/kg			WG746511	10/08/14 23:57
Chlorobenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Chlorodibromomethane	< .001	mg/kg			WG746511	10/08/14 23:57
Chloroethane	< .005	mg/kg			WG746511	10/08/14 23:57
Chloroform	< .005	mg/kg			WG746511	10/08/14 23:57
Chloromethane	< .0025	mg/kg			WG746511	10/08/14 23:57
cis-1,2-Dichloroethene	< .001	mg/kg			WG746511	10/08/14 23:57
cis-1,3-Dichloropropene	< .001	mg/kg			WG746511	10/08/14 23:57
Di-isopropyl ether	< .001	mg/kg			WG746511	10/08/14 23:57
Dibromomethane	< .001	mg/kg			WG746511	10/08/14 23:57
Dichlorodifluoromethane	< .005	mg/kg			WG746511	10/08/14 23:57
Ethylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Hexachloro-1,3-butadiene	< .001	mg/kg			WG746511	10/08/14 23:57
Isopropylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Methyl tert-butyl ether	< .001	mg/kg			WG746511	10/08/14 23:57
Methylene Chloride	< .005	mg/kg			WG746511	10/08/14 23:57
n-Butylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
n-Propylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L725249

October 09, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Naphthalene	< .005	mg/kg			WG746511	10/08/14 23:57
p-Isopropyltoluene	< .001	mg/kg			WG746511	10/08/14 23:57
sec-Butylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Styrene	< .001	mg/kg			WG746511	10/08/14 23:57
tert-Butylbenzene	< .001	mg/kg			WG746511	10/08/14 23:57
Tetrachloroethene	< .001	mg/kg			WG746511	10/08/14 23:57
Toluene	< .005	mg/kg			WG746511	10/08/14 23:57
trans-1,2-Dichloroethene	< .001	mg/kg			WG746511	10/08/14 23:57
trans-1,3-Dichloropropene	< .001	mg/kg			WG746511	10/08/14 23:57
Trichloroethene	< .001	mg/kg			WG746511	10/08/14 23:57
Trichlorofluoromethane	< .005	mg/kg			WG746511	10/08/14 23:57
Vinyl chloride	< .001	mg/kg			WG746511	10/08/14 23:57
Xylenes, Total	< .003	mg/kg			WG746511	10/08/14 23:57
4-Bromofluorobenzene		% Rec.	89.60	71-126	WG746511	10/08/14 23:57
Dibromofluoromethane		% Rec.	93.60	78.3-121	WG746511	10/08/14 23:57
Toluene-d8		% Rec.	98.40	88.5-111	WG746511	10/08/14 23:57

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	86.8	86.5	0.262	5	L725612-01	WG746776
Total Solids	%	74.1	75.1	1.25	5	L725265-05	WG746834

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG746776
Total Solids	%	50	50.0	100.	85-115	WG746834
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0257	103.	72.9-124	WG746511
1,1,1-Trichloroethane	mg/kg	.025	0.0238	95.0	73.7-124	WG746511
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0267	107.	69.4-122	WG746511
1,1,2-Trichloroethane	mg/kg	.025	0.0257	103.	79.1-118	WG746511
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0251	100.	70-146	WG746511
1,1-Dichloroethane	mg/kg	.025	0.0247	98.9	75-124	WG746511
1,1-Dichloroethene	mg/kg	.025	0.0231	92.5	70.4-129	WG746511
1,1-Dichloropropene	mg/kg	.025	0.0240	95.9	74.9-124	WG746511
1,2,3-Trichlorobenzene	mg/kg	.025	0.0254	102.	69.3-131	WG746511
1,2,3-Trichloropropane	mg/kg	.025	0.0269	108.	71.4-123	WG746511
1,2,3-Trimethylbenzene	mg/kg	.025	0.0245	98.0	73.6-113	WG746511
1,2,4-Trichlorobenzene	mg/kg	.025	0.0260	104.	71.9-137	WG746511
1,2,4-Trimethylbenzene	mg/kg	.025	0.0260	104.	75.5-122	WG746511
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0260	104.	62.8-133	WG746511
1,2-Dibromoethane	mg/kg	.025	0.0255	102.	78.6-120	WG746511
1,2-Dichlorobenzene	mg/kg	.025	0.0254	102.	78.3-118	WG746511
1,2-Dichloroethane	mg/kg	.025	0.0218	87.1	70.1-124	WG746511
1,2-Dichloropropane	mg/kg	.025	0.0285	114.	77.9-119	WG746511
1,3,5-Trimethylbenzene	mg/kg	.025	0.0266	106.	75.9-124	WG746511
1,3-Dichlorobenzene	mg/kg	.025	0.0269	108.	72-126	WG746511
1,3-Dichloropropane	mg/kg	.025	0.0257	103.	79.1-117	WG746511
1,4-Dichlorobenzene	mg/kg	.025	0.0257	103.	78.3-117	WG746511
2,2-Dichloropropane	mg/kg	.025	0.0247	98.7	61.3-136	WG746511
2-Butanone (MEK)	mg/kg	.125	0.133	107.	53.7-153	WG746511
2-Chloroethyl vinyl ether	mg/kg	.125	0.134	107.	37.7-157	WG746511

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725249

October 09, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
2-Chlorotoluene	mg/kg	.025	0.0249	99.7	75.6-121	WG746511
4-Chlorotoluene	mg/kg	.025	0.0259	104.	77.3-120	WG746511
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.139	111.	70.4-137	WG746511
Acetone	mg/kg	.125	0.138	111.	35.1-175	WG746511
Acrylonitrile	mg/kg	.125	0.140	112.	56.4-128	WG746511
Benzene	mg/kg	.025	0.0254	102.	77.1-121	WG746511
Bromobenzene	mg/kg	.025	0.0249	99.4	78.2-115	WG746511
Bromodichloromethane	mg/kg	.025	0.0239	95.5	74.9-115	WG746511
Bromoform	mg/kg	.025	0.0275	110.	65.9-132	WG746511
Bromomethane	mg/kg	.025	0.0314	126.	48.7-165	WG746511
Carbon tetrachloride	mg/kg	.025	0.0243	97.2	70-124	WG746511
Chlorobenzene	mg/kg	.025	0.0261	105.	79.1-119	WG746511
Chlorodibromomethane	mg/kg	.025	0.0254	102.	73.5-121	WG746511
Chloroethane	mg/kg	.025	0.0275	110.	66.2-132	WG746511
Chloroform	mg/kg	.025	0.0230	92.2	76.7-122	WG746511
Chloromethane	mg/kg	.025	0.0278	111.	63.4-131	WG746511
cis-1,2-Dichloroethene	mg/kg	.025	0.0252	101.	78.2-119	WG746511
cis-1,3-Dichloropropene	mg/kg	.025	0.0271	109.	79.6-120	WG746511
Di-isopropyl ether	mg/kg	.025	0.0261	104.	70.4-133	WG746511
Dibromomethane	mg/kg	.025	0.0257	103.	79.4-120	WG746511
Dichlorodifluoromethane	mg/kg	.025	0.0223	89.2	57.1-137	WG746511
Ethylbenzene	mg/kg	.025	0.0271	108.	79.7-122	WG746511
Hexachloro-1,3-butadiene	mg/kg	.025	0.0266	106.	68.2-123	WG746511
Isopropylbenzene	mg/kg	.025	0.0261	105.	80-135	WG746511
Methyl tert-butyl ether	mg/kg	.025	0.0244	97.5	73-129	WG746511
Methylene Chloride	mg/kg	.025	0.0245	97.9	72.6-120	WG746511
n-Butylbenzene	mg/kg	.025	0.0263	105.	77.5-126	WG746511
n-Propylbenzene	mg/kg	.025	0.0263	105.	77.9-123	WG746511
Naphthalene	mg/kg	.025	0.0249	99.4	69.8-128	WG746511
p-Isopropyltoluene	mg/kg	.025	0.0273	109.	75.8-129	WG746511
sec-Butylbenzene	mg/kg	.025	0.0259	103.	75.8-126	WG746511
Styrene	mg/kg	.025	0.0270	108.	82.4-126	WG746511
tert-Butylbenzene	mg/kg	.025	0.0263	105.	76.4-126	WG746511
Tetrachloroethene	mg/kg	.025	0.0286	114.	73.9-125	WG746511
Toluene	mg/kg	.025	0.0270	108.	79.7-118	WG746511
trans-1,2-Dichloroethene	mg/kg	.025	0.0248	99.0	73.8-122	WG746511
trans-1,3-Dichloropropene	mg/kg	.025	0.0274	109.	75.9-124	WG746511
Trichloroethene	mg/kg	.025	0.0274	110.	77.9-118	WG746511
Trichlorofluoromethane	mg/kg	.025	0.0229	91.4	67.7-131	WG746511
Vinyl chloride	mg/kg	.025	0.0263	105.	66.7-130	WG746511
Xylenes, Total	mg/kg	.075	0.0803	107.	78.8-121	WG746511
4-Bromofluorobenzene				94.70	71-126	WG746511
Dibromofluoromethane				89.10	78.3-121	WG746511
Toluene-d8				101.0	88.5-111	WG746511

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0257	0.0257	103.	72.9-124	0.160	20	WG746511
1,1,1-Trichloroethane	mg/kg	0.0234	0.0238	94.0	73.7-124	1.48	20	WG746511
1,1,2,2-Tetrachloroethane	mg/kg	0.0263	0.0267	105.	69.4-122	1.46	20	WG746511
1,1,2-Trichloroethane	mg/kg	0.0260	0.0257	104.	79.1-118	1.13	20	WG746511
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0258	0.0251	103.	70-146	2.98	20	WG746511
1,1-Dichloroethane	mg/kg	0.0254	0.0247	101.	75-124	2.52	20	WG746511
1,1-Dichloroethene	mg/kg	0.0237	0.0231	95.0	70.4-129	2.52	20	WG746511
1,1-Dichloropropene	mg/kg	0.0248	0.0240	99.0	74.9-124	3.26	20	WG746511
1,2,3-Trichlorobenzene	mg/kg	0.0264	0.0254	106.	69.3-131	3.72	20	WG746511
1,2,3-Trichloropropane	mg/kg	0.0260	0.0269	104.	71.4-123	3.59	20	WG746511
1,2,3-Trimethylbenzene	mg/kg	0.0251	0.0245	100.	73.6-113	2.40	20	WG746511

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Quality Assurance Report
Level II

L725249

October 09, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,2,4-Trichlorobenzene	mg/kg	0.0273	0.0260	109.	71.9-137	5.16	20	WG746511
1,2,4-Trimethylbenzene	mg/kg	0.0267	0.0260	107.	75.5-122	2.72	20	WG746511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0255	0.0260	102.	62.8-133	1.62	20	WG746511
1,2-Dibromoethane	mg/kg	0.0263	0.0255	105.	78.6-120	2.93	20	WG746511
1,2-Dichlorobenzene	mg/kg	0.0258	0.0254	103.	78.3-118	1.53	20	WG746511
1,2-Dichloroethane	mg/kg	0.0222	0.0218	89.0	70.1-124	1.82	20	WG746511
1,2-Dichloropropane	mg/kg	0.0280	0.0285	112.	77.9-119	2.01	20	WG746511
1,3,5-Trimethylbenzene	mg/kg	0.0271	0.0266	108.	75.9-124	1.71	20	WG746511
1,3-Dichlorobenzene	mg/kg	0.0277	0.0269	111.	72-126	3.04	20	WG746511
1,3-Dichloropropane	mg/kg	0.0264	0.0257	106.	79.1-117	2.69	20	WG746511
1,4-Dichlorobenzene	mg/kg	0.0262	0.0257	105.	78.3-117	2.11	20	WG746511
2,2-Dichloropropane	mg/kg	0.0255	0.0247	102.	61.3-136	3.24	20	WG746511
2-Butanone (MEK)	mg/kg	0.132	0.133	106.	53.7-153	0.660	21.2	WG746511
2-Chloroethyl vinyl ether	mg/kg	0.132	0.134	106.	37.7-157	1.58	20	WG746511
2-Chlorotoluene	mg/kg	0.0256	0.0249	102.	75.6-121	2.56	20	WG746511
4-Chlorotoluene	mg/kg	0.0264	0.0259	106.	77.3-120	1.95	20	WG746511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.136	0.139	108.	70.4-137	2.40	20	WG746511
Acetone	mg/kg	0.136	0.138	109.	35.1-175	1.54	26.1	WG746511
Acrylonitrile	mg/kg	0.141	0.140	113.	56.4-128	0.530	20	WG746511
Benzene	mg/kg	0.0261	0.0254	104.	77.1-121	2.59	20	WG746511
Bromobenzene	mg/kg	0.0255	0.0249	102.	78.2-115	2.56	20	WG746511
Bromodichloromethane	mg/kg	0.0238	0.0239	95.0	74.9-115	0.400	20	WG746511
Bromoform	mg/kg	0.0270	0.0275	108.	65.9-132	1.83	20	WG746511
Bromomethane	mg/kg	0.0320	0.0314	128.	48.7-165	1.87	20	WG746511
Carbon tetrachloride	mg/kg	0.0249	0.0243	100.	70-124	2.31	20	WG746511
Chlorobenzene	mg/kg	0.0266	0.0261	106.	79.1-119	1.80	20	WG746511
Chlorodibromomethane	mg/kg	0.0263	0.0254	105.	73.5-121	3.34	20	WG746511
Chloroethane	mg/kg	0.0269	0.0275	108.	66.2-132	2.16	20	WG746511
Chloroform	mg/kg	0.0235	0.0230	94.0	76.7-122	1.97	20	WG746511
Chloromethane	mg/kg	0.0281	0.0278	112.	63.4-131	1.22	20	WG746511
cis-1,2-Dichloroethene	mg/kg	0.0256	0.0252	102.	78.2-119	1.75	20	WG746511
cis-1,3-Dichloropropene	mg/kg	0.0269	0.0271	108.	79.6-120	0.730	20	WG746511
Di-isopropyl ether	mg/kg	0.0268	0.0261	107.	70.4-133	2.87	20	WG746511
Dibromomethane	mg/kg	0.0253	0.0257	101.	79.4-120	1.66	20	WG746511
Dichlorodifluoromethane	mg/kg	0.0228	0.0223	91.0	57.1-137	2.12	20	WG746511
Ethylbenzene	mg/kg	0.0271	0.0271	108.	79.7-122	0.170	20	WG746511
Hexachloro-1,3-butadiene	mg/kg	0.0277	0.0266	111.	68.2-123	4.22	20	WG746511
Isopropylbenzene	mg/kg	0.0265	0.0261	106.	80-135	1.48	20	WG746511
Methyl tert-butyl ether	mg/kg	0.0245	0.0244	98.0	73-129	0.650	20	WG746511
Methylene Chloride	mg/kg	0.0249	0.0245	100.	72.6-120	1.80	20	WG746511
n-Butylbenzene	mg/kg	0.0269	0.0263	107.	77.5-126	2.28	20	WG746511
n-Propylbenzene	mg/kg	0.0265	0.0263	106.	77.9-123	0.720	20	WG746511
Naphthalene	mg/kg	0.0255	0.0249	102.	69.8-128	2.60	20	WG746511
p-Isopropyltoluene	mg/kg	0.0276	0.0273	110.	75.8-129	0.880	20	WG746511
sec-Butylbenzene	mg/kg	0.0267	0.0259	107.	75.8-126	3.19	20	WG746511
Styrene	mg/kg	0.0276	0.0270	110.	82.4-126	2.06	20	WG746511
tert-Butylbenzene	mg/kg	0.0271	0.0263	108.	76.4-126	3.05	20	WG746511
Tetrachloroethene	mg/kg	0.0301	0.0286	120.	73.9-125	5.30	20	WG746511
Toluene	mg/kg	0.0264	0.0270	106.	79.7-118	2.25	20	WG746511
trans-1,2-Dichloroethene	mg/kg	0.0247	0.0248	99.0	73.8-122	0.260	20	WG746511
trans-1,3-Dichloropropene	mg/kg	0.0275	0.0274	110.	75.9-124	0.440	20	WG746511
Trichloroethene	mg/kg	0.0264	0.0274	106.	77.9-118	3.58	20	WG746511
Trichlorofluoromethane	mg/kg	0.0232	0.0229	93.0	67.7-131	1.52	20	WG746511
Vinyl chloride	mg/kg	0.0269	0.0263	107.	66.7-130	1.93	20	WG746511
Xylenes, Total	mg/kg	0.0817	0.0803	109.	78.8-121	1.77	20	WG746511
4-Bromofluorobenzene				97.00	71-126			WG746511
Dibromofluoromethane				92.80	78.3-121			WG746511
Toluene-d8				100.0	88.5-111			WG746511

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Quality Assurance Report
Level II

L725249

October 09, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0216	0.0	.025	86.0	64-128	L725132-06	WG746511
1,1,1-Trichloroethane	mg/kg	0.0203	0.0	.025	81.0	58.7-134	L725132-06	WG746511
1,1,2,2-Tetrachloroethane	mg/kg	0.0241	0.0	.025	96.0	56-132	L725132-06	WG746511
1,1,2-Trichloroethane	mg/kg	0.0226	0.0	.025	90.0	66.3-125	L725132-06	WG746511
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0207	0.0	.025	83.0	54.8-154	L725132-06	WG746511
1,1-Dichloroethane	mg/kg	0.0213	0.0	.025	85.0	58.5-132	L725132-06	WG746511
1,1-Dichloroethene	mg/kg	0.0192	0.0	.025	77.0	51.1-140	L725132-06	WG746511
1,1-Dichloropropene	mg/kg	0.0204	0.0	.025	82.0	57.3-136	L725132-06	WG746511
1,2,3-Trichlorobenzene	mg/kg	0.0201	0.0	.025	80.0	59.1-138	L725132-06	WG746511
1,2,3-Trichloropropane	mg/kg	0.0230	0.0	.025	92.0	61.4-128	L725132-06	WG746511
1,2,3-Trimethylbenzene	mg/kg	0.0199	0.0	.025	80.0	61.3-122	L725132-06	WG746511
1,2,4-Trichlorobenzene	mg/kg	0.0205	0.0	.025	82.0	63.6-143	L725132-06	WG746511
1,2,4-Trimethylbenzene	mg/kg	0.0210	0.0	.025	84.0	57.4-137	L725132-06	WG746511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0210	0.0	.025	84.0	57.3-136	L725132-06	WG746511
1,2-Dibromoethane	mg/kg	0.0221	0.0	.025	88.0	67.1-125	L725132-06	WG746511
1,2-Dichlorobenzene	mg/kg	0.0208	0.0	.025	83.0	68.2-123	L725132-06	WG746511
1,2-Dichloroethane	mg/kg	0.0188	0.0	.025	75.0	60-126	L725132-06	WG746511
1,2-Dichloropropane	mg/kg	0.0238	0.0	.025	95.0	64.2-123	L725132-06	WG746511
1,3,5-Trimethylbenzene	mg/kg	0.0213	0.0	.025	85.0	63.6-132	L725132-06	WG746511
1,3-Dichlorobenzene	mg/kg	0.0220	0.0	.025	88.0	63.1-131	L725132-06	WG746511
1,3-Dichloropropane	mg/kg	0.0220	0.0	.025	88.0	67.9-121	L725132-06	WG746511
1,4-Dichlorobenzene	mg/kg	0.0205	0.0	.025	82.0	68.6-123	L725132-06	WG746511
2,2-Dichloropropane	mg/kg	0.0211	0.0	.025	84.0	50.5-144	L725132-06	WG746511
2-Butanone (MEK)	mg/kg	0.113	0.0	.125	91.0	22.4-138	L725132-06	WG746511
2-Chloroethyl vinyl ether	mg/kg	0.115	0.0	.125	92.0	10-155	L725132-06	WG746511
2-Chlorotoluene	mg/kg	0.0211	0.0	.025	84.0	63.6-128	L725132-06	WG746511
4-Chlorotoluene	mg/kg	0.0209	0.0	.025	84.0	65.7-127	L725132-06	WG746511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.129	0.0	.125	100.	60.8-140	L725132-06	WG746511
Acetone	mg/kg	0.102	0.00192	.125	80.0	10-130	L725132-06	WG746511
Acrylonitrile	mg/kg	0.128	0.0	.125	100.	49.4-133	L725132-06	WG746511
Benzene	mg/kg	0.0214	0.0	.025	86.0	54.3-133	L725132-06	WG746511
Bromobenzene	mg/kg	0.0205	0.0	.025	82.0	63.9-124	L725132-06	WG746511
Bromodichloromethane	mg/kg	0.0204	0.0	.025	82.0	63.9-121	L725132-06	WG746511
Bromoform	mg/kg	0.0234	0.0	.025	94.0	59.5-134	L725132-06	WG746511
Bromomethane	mg/kg	0.0253	0.0	.025	100.	41.7-155	L725132-06	WG746511
Carbon tetrachloride	mg/kg	0.0206	0.0	.025	82.0	55.7-134	L725132-06	WG746511
Chlorobenzene	mg/kg	0.0216	0.0	.025	86.0	67-125	L725132-06	WG746511
Chlorodibromomethane	mg/kg	0.0217	0.0	.025	87.0	64.3-125	L725132-06	WG746511
Chloroethane	mg/kg	0.0222	0.0	.025	89.0	51.5-136	L725132-06	WG746511
Chloroform	mg/kg	0.0199	0.0	.025	80.0	63-129	L725132-06	WG746511
Chloromethane	mg/kg	0.0231	0.0	.025	92.0	42.4-135	L725132-06	WG746511
cis-1,2-Dichloroethene	mg/kg	0.0218	0.0	.025	87.0	59.2-129	L725132-06	WG746511
cis-1,3-Dichloropropene	mg/kg	0.0228	0.0	.025	91.0	66.4-125	L725132-06	WG746511
Di-isopropyl ether	mg/kg	0.0223	0.0	.025	89.0	56.9-136	L725132-06	WG746511
Dibromomethane	mg/kg	0.0213	0.0	.025	85.0	68.2-124	L725132-06	WG746511
Dichlorodifluoromethane	mg/kg	0.0195	0.0	.025	78.0	40.6-144	L725132-06	WG746511
Ethylbenzene	mg/kg	0.0219	0.0	.025	88.0	61.4-133	L725132-06	WG746511
Hexachloro-1,3-butadiene	mg/kg	0.0189	0.0	.025	76.0	55.1-136	L725132-06	WG746511
Isopropylbenzene	mg/kg	0.0214	0.0	.025	86.0	66.8-141	L725132-06	WG746511
Methyl tert-butyl ether	mg/kg	0.0213	0.0	.025	85.0	57.7-134	L725132-06	WG746511
Methylene Chloride	mg/kg	0.0206	0.000537	.025	80.0	58.1-122	L725132-06	WG746511
n-Butylbenzene	mg/kg	0.0202	0.0	.025	81.0	62.7-140	L725132-06	WG746511
n-Propylbenzene	mg/kg	0.0209	0.0	.025	84.0	10-176	L725132-06	WG746511
Naphthalene	mg/kg	0.0200	0.0	.025	80.0	58-135	L725132-06	WG746511
p-Isopropyltoluene	mg/kg	0.0213	0.0	.025	85.0	63.2-139	L725132-06	WG746511
sec-Butylbenzene	mg/kg	0.0209	0.0	.025	84.0	62.2-136	L725132-06	WG746511
Styrene	mg/kg	0.0226	0.0	.025	90.0	66.8-133	L725132-06	WG746511
tert-Butylbenzene	mg/kg	0.0213	0.0	.025	85.0	63.3-134	L725132-06	WG746511
Tetrachloroethene	mg/kg	0.0231	0.0	.025	93.0	53-139	L725132-06	WG746511
Toluene	mg/kg	0.0221	0.0	.025	88.0	61.4-130	L725132-06	WG746511

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725249

October 09, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
trans-1,2-Dichloroethene	mg/kg	0.0208	0.0	.025	83.0	56.5-129	L725132-06	WG746511
trans-1,3-Dichloropropene	mg/kg	0.0241	0.0	.025	96.0	64.1-128	L725132-06	WG746511
Trichloroethene	mg/kg	0.0218	0.0	.025	87.0	44.1-149	L725132-06	WG746511
Trichlorofluoromethane	mg/kg	0.0193	0.0	.025	77.0	49.6-145	L725132-06	WG746511
Vinyl chloride	mg/kg	0.0220	0.0	.025	88.0	47.8-137	L725132-06	WG746511
Xylenes, Total	mg/kg	0.0656	0.0	.075	88.0	63.3-131	L725132-06	WG746511
4-Bromofluorobenzene					95.10	71-126		WG746511
Dibromofluoromethane					94.10	78.3-121		WG746511
Toluene-d8					101.0	88.5-111		WG746511

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0216	0.0216	86.5	64-128	0.150	20	L725132-06	WG746511
1,1,1-Trichloroethane	mg/kg	0.0199	0.0203	79.4	58.7-134	2.27	20	L725132-06	WG746511
1,1,2,2-Tetrachloroethane	mg/kg	0.0261	0.0241	104.	56-132	8.28	22.2	L725132-06	WG746511
1,1,2-Trichloroethane	mg/kg	0.0229	0.0226	91.6	66.3-125	1.31	20	L725132-06	WG746511
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0167	0.0207	66.9	54.8-154	21.3	22.5	L725132-06	WG746511
1,1-Dichloroethane	mg/kg	0.0212	0.0213	84.7	58.5-132	0.340	20	L725132-06	WG746511
1,1-Dichloroethene	mg/kg	0.0182	0.0192	72.8	51.1-140	5.32	20.2	L725132-06	WG746511
1,1-Dichloropropene	mg/kg	0.0183	0.0204	73.4	57.3-136	10.7	20	L725132-06	WG746511
1,2,3-Trichlorobenzene	mg/kg	0.0193	0.0201	77.3	59.1-138	3.81	23.7	L725132-06	WG746511
1,2,3-Trichloropropane	mg/kg	0.0236	0.0230	94.2	61.4-128	2.25	22.4	L725132-06	WG746511
1,2,3-Trimethylbenzene	mg/kg	0.0187	0.0199	74.6	61.3-122	6.29	20	L725132-06	WG746511
1,2,4-Trichlorobenzene	mg/kg	0.0188	0.0205	75.2	63.6-143	8.77	21.9	L725132-06	WG746511
1,2,4-Trimethylbenzene	mg/kg	0.0188	0.0210	75.1	57.4-137	11.0	20	L725132-06	WG746511
1,2-Dibromo-3-Chloropropane	mg/kg	0.0240	0.0210	95.9	57.3-136	13.2	27	L725132-06	WG746511
1,2-Dibromoethane	mg/kg	0.0235	0.0221	94.1	67.1-125	6.26	20	L725132-06	WG746511
1,2-Dichlorobenzene	mg/kg	0.0197	0.0208	79.0	68.2-123	5.26	20	L725132-06	WG746511
1,2-Dichloroethane	mg/kg	0.0196	0.0188	78.2	60-126	3.70	20	L725132-06	WG746511
1,2-Dichloropropane	mg/kg	0.0246	0.0238	98.5	64.2-123	3.30	20	L725132-06	WG746511
1,3,5-Trimethylbenzene	mg/kg	0.0189	0.0213	75.6	63.6-132	12.1	20.5	L725132-06	WG746511
1,3-Dichlorobenzene	mg/kg	0.0194	0.0220	77.7	63.1-131	12.4	20	L725132-06	WG746511
1,3-Dichloropropane	mg/kg	0.0228	0.0220	91.2	67.9-121	3.70	20	L725132-06	WG746511
1,4-Dichlorobenzene	mg/kg	0.0191	0.0205	76.4	68.6-123	7.00	20	L725132-06	WG746511
2,2-Dichloropropane	mg/kg	0.0209	0.0211	83.5	50.5-144	1.08	21.9	L725132-06	WG746511
2-Butanone (MEK)	mg/kg	0.126	0.113	101.	22.4-138	10.9	27	L725132-06	WG746511
2-Chloroethyl vinyl ether	mg/kg	0.121	0.115	96.8	10-155	5.43	40	L725132-06	WG746511
2-Chlorotoluene	mg/kg	0.0185	0.0211	74.1	63.6-128	13.0	20	L725132-06	WG746511
4-Chlorotoluene	mg/kg	0.0186	0.0209	74.2	65.7-127	12.1	20	L725132-06	WG746511
4-Methyl-2-pentanone (MIBK)	mg/kg	0.142	0.129	113.	60.8-140	9.15	25.1	L725132-06	WG746511
Acetone	mg/kg	0.115	0.102	90.4	10-130	12.1	27.9	L725132-06	WG746511
Acrylonitrile	mg/kg	0.139	0.128	111.	49.4-133	7.66	25.3	L725132-06	WG746511
Benzene	mg/kg	0.0212	0.0214	84.9	54.3-133	0.890	20	L725132-06	WG746511
Bromobenzene	mg/kg	0.0199	0.0205	79.7	63.9-124	3.11	20	L725132-06	WG746511
Bromodichloromethane	mg/kg	0.0208	0.0204	83.4	63.9-121	2.07	20	L725132-06	WG746511
Bromoform	mg/kg	0.0253	0.0234	101.	59.5-134	7.77	20.8	L725132-06	WG746511
Bromomethane	mg/kg	0.0260	0.0253	104.	41.7-155	2.86	20.5	L725132-06	WG746511
Carbon tetrachloride	mg/kg	0.0196	0.0206	78.4	55.7-134	5.12	20.3	L725132-06	WG746511
Chlorobenzene	mg/kg	0.0206	0.0216	82.5	67-125	4.46	20	L725132-06	WG746511
Chlorodibromomethane	mg/kg	0.0224	0.0217	89.7	64.3-125	3.37	20	L725132-06	WG746511
Chloroethane	mg/kg	0.0217	0.0222	86.8	51.5-136	2.11	20.8	L725132-06	WG746511
Chloroform	mg/kg	0.0199	0.0199	79.5	63-129	0.0600	20	L725132-06	WG746511
Chloromethane	mg/kg	0.0229	0.0231	91.7	42.4-135	0.860	20	L725132-06	WG746511
cis-1,2-Dichloroethene	mg/kg	0.0216	0.0218	86.4	59.2-129	0.700	20	L725132-06	WG746511
cis-1,3-Dichloropropene	mg/kg	0.0234	0.0228	93.4	66.4-125	2.43	20	L725132-06	WG746511
Di-isopropyl ether	mg/kg	0.0230	0.0223	91.9	56.9-136	3.14	20	L725132-06	WG746511
Dibromomethane	mg/kg	0.0225	0.0213	90.2	68.2-124	5.52	20	L725132-06	WG746511
Dichlorodifluoromethane	mg/kg	0.0169	0.0195	67.6	40.6-144	14.2	20.2	L725132-06	WG746511

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Est. 1970

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Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725249

October 09, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Ethylbenzene	mg/kg	0.0201	0.0219	80.3	61.4-133	8.77	20	L725132-06	WG746511
Hexachloro-1,3-butadiene	mg/kg	0.0153	0.0189	61.2	55.1-136	21.0	23.6	L725132-06	WG746511
Isopropylbenzene	mg/kg	0.0188	0.0214	75.2	66.8-141	13.2	20	L725132-06	WG746511
Methyl tert-butyl ether	mg/kg	0.0224	0.0213	89.6	57.7-134	5.25	20	L725132-06	WG746511
Methylene Chloride	mg/kg	0.0210	0.0206	81.7	58.1-122	1.76	20	L725132-06	WG746511
n-Butylbenzene	mg/kg	0.0167	0.0202	67.0	62.7-140	18.9	20	L725132-06	WG746511
n-Propylbenzene	mg/kg	0.0177	0.0209	70.8	10-176	16.7	26.6	L725132-06	WG746511
Naphthalene	mg/kg	0.0217	0.0200	86.6	58-135	8.11	25.5	L725132-06	WG746511
p-Isopropyltoluene	mg/kg	0.0182	0.0213	72.8	63.2-139	15.9	20.4	L725132-06	WG746511
sec-Butylbenzene	mg/kg	0.0175	0.0209	70.1	62.2-136	17.4	20.3	L725132-06	WG746511
Styrene	mg/kg	0.0212	0.0226	84.9	66.8-133	6.37	20	L725132-06	WG746511
tert-Butylbenzene	mg/kg	0.0188	0.0213	75.3	63.3-134	12.2	20.3	L725132-06	WG746511
Tetrachloroethene	mg/kg	0.0188	0.0231	75.2	53-139	20.7*	20	L725132-06	WG746511
Toluene	mg/kg	0.0214	0.0221	85.8	61.4-130	2.90	20	L725132-06	WG746511
trans-1,2-Dichloroethene	mg/kg	0.0194	0.0208	77.7	56.5-129	6.82	20	L725132-06	WG746511
trans-1,3-Dichloropropene	mg/kg	0.0247	0.0241	98.6	64.1-128	2.25	20	L725132-06	WG746511
Trichloroethene	mg/kg	0.0208	0.0218	83.1	44.1-149	4.83	20	L725132-06	WG746511
Trichlorofluoromethane	mg/kg	0.0173	0.0193	69.2	49.6-145	10.8	21.2	L725132-06	WG746511
Vinyl chloride	mg/kg	0.0213	0.0220	85.2	47.8-137	3.32	20	L725132-06	WG746511
Xylenes, Total	mg/kg	0.0598	0.0656	79.8	63.3-131	9.27	20	L725132-06	WG746511
4-Bromofluorobenzene				94.30	71-126				WG746511
Dibromofluoromethane				91.00	78.3-121				WG746511
Toluene-d8				101.0	88.5-111				WG746511

Batch number /Run number / Sample number cross reference

WG746776: R2995220: L725249-01 02 03 04
WG746834: R2995236: L725249-05 06 07 08 09 10
WG746511: R2996349: L725249-01 02 03 04 05 06 07 08 09 10

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Seattle, WA 98161

Quality Assurance Report
Level II

L725249

October 09, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

1218 Fourth Ave., Suite 1350
Seattle, WA 98161

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

Report to: Matt Dahl

Email To: mdahl@pesenv.com; krushish@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected:

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

Client Project # 1358.001.01.009 009

Lab Project # PESENVSWA-1358001.01

Collected by (print): JoAnne Ellis

Site/Facility ID # NORMADY PARK, WA

P.O. # 1358.001.01.009

Collected by (signature): JoAnne Ellis

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No X_Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Chain of Custody Page 1 of 2

ESC LABORATORIES

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

L# 127524

K149

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483981
TSR: 358 - Jarred Willis
PB:
Shipped Via: FedEx Ground

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4oz Clr - NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260 - Trip Blank 40ml Amb-HCl-Blk	Remarks/Containment	Sample # (lab only)
AS-10-3'	G	SS	3'	10/1/14	0840	4	X	X			01
AS-21-3'	G	SS	3'	10/1/14	0840	4	X	X			02
SVE-15-3'	G	SS	3'	10/1/14	0925	4	X	X			03
TRIP BLANK		GW				1			X - Could not locate		04
AS-25-3'	G		3'	10/1/14	0945	4	X	X			04
AS-11-3'	G		3'	10/1/14	1020	4	X	X			05
AS-22-3'	G		3'	10/1/14	1055	4	X	X			06
AS-22-8'	G		8'	10/1/14	1105	4	X	X			07
AS-12-3'	G		3'	10/1/14	1220	4	X	X			08

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ____

Remarks:

6089718183

pH ____ Temp ____

Flow ____ Other ____

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ ____

Temp: 0.4 °C Bottles Received: 40

Date: 10/2/14 Time: 0900

Hold #

Condition: (lab use only) NCF

COC Seal Intact: ___ Y ___ N ✓ NA

pH Checked: NCF:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
	10/1/14	1700	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

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: Matt Dahl

Email To: mdahl@pesenv.com; kranklich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected:

Phone: 206-529-5880
Fax: 206-529-5885

Client Project # 1358.001.01.005 007

Lab Project # PESENVSWA-135800101

Collected by (print): John Ellis

Site/Facility ID # NORMADY PARK, WA

P.O. # SF 1358.001.01.005

Collected by (signature):

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed: Standard

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk							Sample # (lab only)
AS-13-3'	G	SS	3'	10/1/14	1245	4	X	X								09
AS-13-8'	G	SS	8'	10/1/14	1255	4	X	X								10
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								
		SS				4	X	X								

Analysis / Container / Preservative

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other ___

Remarks:

pH ___ Temp ___

Flow ___ Other ___

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
	10/1/14	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☐ FedEx ☐ Courier ☐ ___

Temp: 2.1 °C Bottles Received: 40

Date: 10/2/14 Time: 900

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page 2 of 2

ESC LABORATORY SCIENCES

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Phone: 800-767-5859
Fax: 615-758-5859

L# 172524

Table #

Acctnum: PESENVSWA

Template: T97039

Prelogin: P483981

TSR: 358 - Jarred Willis

PB:

Shipped Via: FedEX Ground

Sample # (lab only)

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Est. 1970

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Friday October 10, 2014

Report Number: L725740
Samples Received: 10/04/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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Where applicable, sampling conducted by ESC is performed per guidance provided in laboratory standard operating procedures: 060302, 060303, and 060304.

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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-01

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-18-8

Collected By : Chris Deboer
Collection Date : 10/02/14 09:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.8		%	2540 G-2011	10/08/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260B	10/08/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/08/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromomethane	BDL	0.0052	mg/kg	8260B	10/08/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chloroethane	BDL	0.0052	mg/kg	8260B	10/08/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260B	10/08/14	1
Chloroform	BDL	0.0052	mg/kg	8260B	10/08/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/08/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260B	10/08/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260B	10/08/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/08/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-01

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-18-8

Collected By : Chris Deboer
Collection Date : 10/02/14 09:40

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/08/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260B	10/08/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/08/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/08/14	1
Naphthalene	BDL	0.0052	mg/kg	8260B	10/08/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Tetrachloroethene	0.0014	0.0010	mg/kg	8260B	10/08/14	1
Toluene	BDL	0.0052	mg/kg	8260B	10/08/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260B	10/08/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/08/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/08/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	10/08/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260B	10/08/14	1
Dibromofluoromethane	103.		% Rec.	8260B	10/08/14	1
4-Bromofluorobenzene	91.3		% Rec.	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-02

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : AS-19-8

Collected By : Chris Deboer
Collection Date : 10/02/14 15:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.9		%	2540 G-2011	10/08/14	1
Volatile Organics						
Acetone	BDL	1.2	mg/kg	8260B	10/08/14	21.5
Acrylonitrile	BDL	0.23	mg/kg	8260B	10/08/14	21.5
Benzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Bromobenzene	0.18	0.023	mg/kg	8260B	10/08/14	21.5
Bromodichloromethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Bromoform	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Bromomethane	BDL	0.12	mg/kg	8260B	10/08/14	21.5
n-Butylbenzene	1.4	0.023	mg/kg	8260B	10/08/14	21.5
sec-Butylbenzene	0.67	0.023	mg/kg	8260B	10/08/14	21.5
tert-Butylbenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Carbon tetrachloride	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Chlorobenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Chlorodibromomethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Chloroethane	BDL	0.12	mg/kg	8260B	10/08/14	21.5
2-Chloroethyl vinyl ether	BDL	1.2	mg/kg	8260B	10/08/14	21.5
Chloroform	BDL	0.12	mg/kg	8260B	10/08/14	21.5
Chloromethane	BDL	0.058	mg/kg	8260B	10/08/14	21.5
2-Chlorotoluene	0.48	0.023	mg/kg	8260B	10/08/14	21.5
4-Chlorotoluene	0.52	0.023	mg/kg	8260B	10/08/14	21.5
1,2-Dibromo-3-Chloropropane	BDL	0.12	mg/kg	8260B	10/08/14	21.5
1,2-Dibromoethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Dibromomethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,2-Dichlorobenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,3-Dichlorobenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,4-Dichlorobenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Dichlorodifluoromethane	BDL	0.12	mg/kg	8260B	10/08/14	21.5
1,1-Dichloroethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,2-Dichloroethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,1-Dichloroethene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
cis-1,2-Dichloroethene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
trans-1,2-Dichloroethene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,2-Dichloropropane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,1-Dichloropropene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,3-Dichloropropane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
cis-1,3-Dichloropropene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
trans-1,3-Dichloropropene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
2,2-Dichloropropane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Di-isopropyl ether	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Ethylbenzene	0.94	0.023	mg/kg	8260B	10/08/14	21.5
Hexachloro-1,3-butadiene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Isopropylbenzene	0.41	0.023	mg/kg	8260B	10/08/14	21.5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-02

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : AS-19-8

Collected By : Chris Deboer
Collection Date : 10/02/14 15:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.41	0.023	mg/kg	8260B	10/08/14	21.5
2-Butanone (MEK)	BDL	0.23	mg/kg	8260B	10/08/14	21.5
Methylene Chloride	BDL	0.12	mg/kg	8260B	10/08/14	21.5
4-Methyl-2-pentanone (MIBK)	BDL	0.23	mg/kg	8260B	10/08/14	21.5
Methyl tert-butyl ether	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Naphthalene	1.5	0.12	mg/kg	8260B	10/08/14	21.5
n-Propylbenzene	1.8	0.023	mg/kg	8260B	10/08/14	21.5
Styrene	0.089	0.023	mg/kg	8260B	10/08/14	21.5
1,1,1,2-Tetrachloroethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,1,2,2-Tetrachloroethane	0.45	0.023	mg/kg	8260B	10/08/14	21.5
1,1,2-Trichlorotrifluoroethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Tetrachloroethene	0.094	0.023	mg/kg	8260B	10/08/14	21.5
Toluene	0.13	0.12	mg/kg	8260B	10/08/14	21.5
1,2,3-Trichlorobenzene	0.036	0.023	mg/kg	8260B	10/08/14	21.5
1,2,4-Trichlorobenzene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,1,1-Trichloroethane	BDL	0.023	mg/kg	8260B	10/08/14	21.5
1,1,2-Trichloroethane	0.34	0.023	mg/kg	8260B	10/08/14	21.5
Trichloroethene	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Trichlorofluoromethane	BDL	0.12	mg/kg	8260B	10/08/14	21.5
1,2,3-Trichloropropane	0.22	0.058	mg/kg	8260B	10/08/14	21.5
1,2,4-Trimethylbenzene	18.	0.19	mg/kg	8260B	10/10/14	172
1,2,3-Trimethylbenzene	4.6	0.023	mg/kg	8260B	10/08/14	21.5
1,3,5-Trimethylbenzene	5.0	0.19	mg/kg	8260B	10/10/14	172
Vinyl chloride	BDL	0.023	mg/kg	8260B	10/08/14	21.5
Xylenes, Total	7.7	0.070	mg/kg	8260B	10/08/14	21.5
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	10/08/14	21.5
Dibromofluoromethane	100.		% Rec.	8260B	10/08/14	21.5
4-Bromofluorobenzene	128.		% Rec.	8260B	10/08/14	21.5

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-03

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Site ID : NORMADY PARK WA

Sample ID : AS-17-8

Project # : 1358.001.01.005

Collected By : Chris Deboer
Collection Date : 10/02/14 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.3		%	2540 G-2011	10/08/14	1
Volatile Organics						
Acetone	BDL	0.051	mg/kg	8260B	10/08/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260B	10/08/14	1
Benzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromoform	BDL	0.0010	mg/kg	8260B	10/08/14	1
Bromomethane	BDL	0.0051	mg/kg	8260B	10/08/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Chloroethane	BDL	0.0051	mg/kg	8260B	10/08/14	1
2-Chloroethyl vinyl ether	BDL	0.051	mg/kg	8260B	10/08/14	1
Chloroform	BDL	0.0051	mg/kg	8260B	10/08/14	1
Chloromethane	BDL	0.0026	mg/kg	8260B	10/08/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0051	mg/kg	8260B	10/08/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Dichlorodifluoromethane	BDL	0.0051	mg/kg	8260B	10/08/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260B	10/08/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260B	10/08/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-03

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : AS-17-8

Collected By : Chris Deboer
Collection Date : 10/02/14 11:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260B	10/08/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260B	10/08/14	1
Methylene Chloride	BDL	0.0051	mg/kg	8260B	10/08/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260B	10/08/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260B	10/08/14	1
Naphthalene	BDL	0.0051	mg/kg	8260B	10/08/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Styrene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Tetrachloroethene	0.0071	0.0010	mg/kg	8260B	10/08/14	1
Toluene	BDL	0.0051	mg/kg	8260B	10/08/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260B	10/08/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Trichlorofluoromethane	BDL	0.0051	mg/kg	8260B	10/08/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260B	10/08/14	1
1,2,4-Trimethylbenzene	0.0028	0.0010	mg/kg	8260B	10/08/14	1
1,2,3-Trimethylbenzene	0.0010	0.0010	mg/kg	8260B	10/08/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260B	10/08/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260B	10/08/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260B	10/08/14	1
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260B	10/08/14	1
Dibromofluoromethane	105.		% Rec.	8260B	10/08/14	1
4-Bromofluorobenzene	88.8		% Rec.	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-04

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : AS-17-30

Collected By : Chris Deboer
Collection Date : 10/02/14 12:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.9		%	2540 G-2011	10/08/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260B	10/08/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260B	10/08/14	1
Benzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromoform	BDL	0.0011	mg/kg	8260B	10/08/14	1
Bromomethane	BDL	0.0053	mg/kg	8260B	10/08/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Chloroethane	BDL	0.0053	mg/kg	8260B	10/08/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260B	10/08/14	1
Chloroform	BDL	0.0053	mg/kg	8260B	10/08/14	1
Chloromethane	BDL	0.0027	mg/kg	8260B	10/08/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260B	10/08/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260B	10/08/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260B	10/08/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260B	10/08/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

ESC Sample # : L725740-04

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : AS-17-30

Collected By : Chris Deboer
Collection Date : 10/02/14 12:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260B	10/08/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260B	10/08/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260B	10/08/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260B	10/08/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260B	10/08/14	1
Naphthalene	BDL	0.0053	mg/kg	8260B	10/08/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Styrene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Tetrachloroethene	0.0022	0.0011	mg/kg	8260B	10/08/14	1
Toluene	BDL	0.0053	mg/kg	8260B	10/08/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260B	10/08/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260B	10/08/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260B	10/08/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260B	10/08/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260B	10/08/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260B	10/08/14	1
Surrogate Recovery						
Toluene-d8	99.4		% Rec.	8260B	10/08/14	1
Dibromofluoromethane	104.		% Rec.	8260B	10/08/14	1
4-Bromofluorobenzene	93.9		% Rec.	8260B	10/08/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : TRIP BLANK

Collected By : Chris Deboer
Collection Date : 10/02/14 00:00

ESC Sample # : L725740-05

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260B	10/07/14	1
Acrolein	BDL	50.	ug/l	8260B	10/07/14	1
Acrylonitrile	BDL	10.	ug/l	8260B	10/07/14	1
Benzene	BDL	1.0	ug/l	8260B	10/07/14	1
Bromobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260B	10/07/14	1
Bromoform	BDL	1.0	ug/l	8260B	10/07/14	1
Bromomethane	BDL	5.0	ug/l	8260B	10/07/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260B	10/07/14	1
Chlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260B	10/07/14	1
Chloroethane	BDL	5.0	ug/l	8260B	10/07/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260B	10/07/14	1
Chloroform	BDL	5.0	ug/l	8260B	10/07/14	1
Chloromethane	BDL	2.5	ug/l	8260B	10/07/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260B	10/07/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260B	10/07/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260B	10/07/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260B	10/07/14	1
Dibromomethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260B	10/07/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260B	10/07/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/07/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260B	10/07/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/07/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260B	10/07/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260B	10/07/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/07/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260B	10/07/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260B	10/07/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260B	10/07/14	1
Ethylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260B	10/07/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260B	10/07/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 10,2014

Date Received : October 04, 2014
Description : MVSC in Normandy Park WA

Sample ID : TRIP BLANK

Collected By : Chris Deboer
Collection Date : 10/02/14 00:00

ESC Sample # : L725740-05

Site ID : NORMADY PARK WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260B	10/07/14	1
Methylene Chloride	BDL	5.0	ug/l	8260B	10/07/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260B	10/07/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260B	10/07/14	1
Naphthalene	BDL	5.0	ug/l	8260B	10/07/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Styrene	BDL	1.0	ug/l	8260B	10/07/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260B	10/07/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260B	10/07/14	1
Toluene	BDL	5.0	ug/l	8260B	10/07/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260B	10/07/14	1
Trichloroethene	BDL	1.0	ug/l	8260B	10/07/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260B	10/07/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260B	10/07/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260B	10/07/14	1
Vinyl chloride	BDL	1.0	ug/l	8260B	10/07/14	1
Xylenes, Total	BDL	3.0	ug/l	8260B	10/07/14	1
Surrogate Recovery						
Toluene-d8	108.		% Rec.	8260B	10/07/14	1
Dibromofluoromethane	96.9		% Rec.	8260B	10/07/14	1
4-Bromofluorobenzene	104.		% Rec.	8260B	10/07/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L725740-01	WG747495	SAMP	1,2,3-Trichlorobenzene	R2996568	J4
L725740-02	WG747495	SAMP	1,2,3-Trichlorobenzene	R2996568	J4
	WG747495	SAMP	4-Bromofluorobenzene	R2996568	J1
L725740-03	WG747495	SAMP	1,2,3-Trichlorobenzene	R2996568	J4
L725740-04	WG747495	SAMP	1,2,3-Trichlorobenzene	R2996568	J4
L725740-05	WG746787	SAMP	Bromomethane	R2995715	J3

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/10/14 at 17:10:51

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L725740-01 Account: PESENVSWA Received: 10/04/14 09:00 Due Date: 10/10/14 00:00 RPT Date: 10/10/14 17:10

Sample: L725740-02 Account: PESENVSWA Received: 10/04/14 09:00 Due Date: 10/10/14 00:00 RPT Date: 10/10/14 17:10

Sample: L725740-03 Account: PESENVSWA Received: 10/04/14 09:00 Due Date: 10/10/14 00:00 RPT Date: 10/10/14 17:10

Sample: L725740-04 Account: PESENVSWA Received: 10/04/14 09:00 Due Date: 10/10/14 00:00 RPT Date: 10/10/14 17:10

Sample: L725740-05 Account: PESENVSWA Received: 10/04/14 09:00 Due Date: 10/10/14 00:00 RPT Date: 10/10/14 17:10

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725740

October 10, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
1,1,1,2-Tetrachloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1,1-Trichloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1,2,2-Tetrachloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1,2-Trichloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1,2-Trichlorotrifluoroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1-Dichloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,1-Dichloroethene	< .0005	mg/l			WG746787	10/07/14 11:41
1,1-Dichloropropene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2,3-Trichlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2,3-Trichloropropane	< .0025	mg/l			WG746787	10/07/14 11:41
1,2,3-Trimethylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2,4-Trichlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2,4-Trimethylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2-Dibromo-3-Chloropropane	< .001	mg/l			WG746787	10/07/14 11:41
1,2-Dibromoethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,2-Dichlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,2-Dichloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
1,2-Dichloropropane	< .0005	mg/l			WG746787	10/07/14 11:41
1,3,5-Trimethylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,3-Dichlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
1,3-Dichloropropane	< .001	mg/l			WG746787	10/07/14 11:41
1,4-Dichlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
2,2-Dichloropropane	< .0005	mg/l			WG746787	10/07/14 11:41
2-Butanone (MEK)	< .0025	mg/l			WG746787	10/07/14 11:41
2-Chloroethyl vinyl ether	< .0025	mg/l			WG746787	10/07/14 11:41
2-Chlorotoluene	< .0005	mg/l			WG746787	10/07/14 11:41
4-Chlorotoluene	< .0005	mg/l			WG746787	10/07/14 11:41
4-Methyl-2-pentanone (MIBK)	< .0025	mg/l			WG746787	10/07/14 11:41
Acetone	< .025	mg/l			WG746787	10/07/14 11:41
Acrolein	< .025	mg/l			WG746787	10/07/14 11:41
Acrylonitrile	< .0025	mg/l			WG746787	10/07/14 11:41
Benzene	< .0005	mg/l			WG746787	10/07/14 11:41
Bromobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Bromodichloromethane	< .0005	mg/l			WG746787	10/07/14 11:41
Bromoform	< .0005	mg/l			WG746787	10/07/14 11:41
Bromomethane	< .0005	mg/l			WG746787	10/07/14 11:41
Carbon tetrachloride	< .0005	mg/l			WG746787	10/07/14 11:41
Chlorobenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Chlorodibromomethane	< .0005	mg/l			WG746787	10/07/14 11:41
Chloroethane	< .0005	mg/l			WG746787	10/07/14 11:41
Chloroform	< .0005	mg/l			WG746787	10/07/14 11:41
Chloromethane	< .0005	mg/l			WG746787	10/07/14 11:41
cis-1,2-Dichloroethene	< .0005	mg/l			WG746787	10/07/14 11:41
cis-1,3-Dichloropropene	< .0005	mg/l			WG746787	10/07/14 11:41
Di-isopropyl ether	< .0005	mg/l			WG746787	10/07/14 11:41
Dibromomethane	< .0005	mg/l			WG746787	10/07/14 11:41
Dichlorodifluoromethane	< .0005	mg/l			WG746787	10/07/14 11:41
Ethylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Hexachloro-1,3-butadiene	< .001	mg/l			WG746787	10/07/14 11:41
Isopropylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Methyl tert-butyl ether	< .0005	mg/l			WG746787	10/07/14 11:41
Methylene Chloride	< .0025	mg/l			WG746787	10/07/14 11:41
n-Butylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
n-Propylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Naphthalene	< .0005	mg/l			WG746787	10/07/14 11:41
p-Isopropyltoluene	< .0005	mg/l			WG746787	10/07/14 11:41
sec-Butylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41
Styrene	< .0005	mg/l			WG746787	10/07/14 11:41
tert-Butylbenzene	< .0005	mg/l			WG746787	10/07/14 11:41

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Quality Assurance Report
Level II

L725740

October 10, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Tetrachloroethene	< .0005	mg/l			WG746787	10/07/14 11:41
Toluene	< .0005	mg/l			WG746787	10/07/14 11:41
trans-1,2-Dichloroethene	< .0005	mg/l			WG746787	10/07/14 11:41
trans-1,3-Dichloropropene	< .0005	mg/l			WG746787	10/07/14 11:41
Trichloroethene	< .0005	mg/l			WG746787	10/07/14 11:41
Trichlorofluoromethane	< .0005	mg/l			WG746787	10/07/14 11:41
Vinyl chloride	< .0005	mg/l			WG746787	10/07/14 11:41
Xylenes, Total	< .0015	mg/l			WG746787	10/07/14 11:41
4-Bromofluorobenzene		% Rec.	103.0	71-126	WG746787	10/07/14 11:41
Dibromofluoromethane		% Rec.	95.90	78.3-121	WG746787	10/07/14 11:41
Toluene-d8		% Rec.	108.0	88.5-111	WG746787	10/07/14 11:41
Total Solids	< .1	%			WG747185	10/08/14 07:39
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1,1-Trichloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1,2-Trichloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1-Dichloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,1-Dichloroethene	< .001	mg/kg			WG747495	10/08/14 18:18
1,1-Dichloropropene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2,3-Trichlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2,3-Trichloropropane	< .0025	mg/kg			WG747495	10/08/14 18:18
1,2,3-Trimethylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2,4-Trichlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2,4-Trimethylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG747495	10/08/14 18:18
1,2-Dibromoethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,2-Dichlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,2-Dichloroethane	< .001	mg/kg			WG747495	10/08/14 18:18
1,2-Dichloropropane	< .001	mg/kg			WG747495	10/08/14 18:18
1,3,5-Trimethylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,3-Dichlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
1,3-Dichloropropane	< .001	mg/kg			WG747495	10/08/14 18:18
1,4-Dichlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
2,2-Dichloropropane	< .001	mg/kg			WG747495	10/08/14 18:18
2-Butanone (MEK)	< .01	mg/kg			WG747495	10/08/14 18:18
2-Chloroethyl vinyl ether	< .05	mg/kg			WG747495	10/08/14 18:18
2-Chlorotoluene	< .001	mg/kg			WG747495	10/08/14 18:18
4-Chlorotoluene	< .001	mg/kg			WG747495	10/08/14 18:18
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG747495	10/08/14 18:18
Acetone	< .05	mg/kg			WG747495	10/08/14 18:18
Acrylonitrile	< .01	mg/kg			WG747495	10/08/14 18:18
Benzene	< .001	mg/kg			WG747495	10/08/14 18:18
Bromobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Bromodichloromethane	< .001	mg/kg			WG747495	10/08/14 18:18
Bromoform	< .001	mg/kg			WG747495	10/08/14 18:18
Bromomethane	< .005	mg/kg			WG747495	10/08/14 18:18
Carbon tetrachloride	< .001	mg/kg			WG747495	10/08/14 18:18
Chlorobenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Chlorodibromomethane	< .001	mg/kg			WG747495	10/08/14 18:18
Chloroethane	< .005	mg/kg			WG747495	10/08/14 18:18
Chloroform	< .005	mg/kg			WG747495	10/08/14 18:18
Chloromethane	< .0025	mg/kg			WG747495	10/08/14 18:18
cis-1,2-Dichloroethene	< .001	mg/kg			WG747495	10/08/14 18:18
cis-1,3-Dichloropropene	< .001	mg/kg			WG747495	10/08/14 18:18

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Quality Assurance Report
Level II

L725740

October 10, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Di-isopropyl ether	< .001	mg/kg			WG747495	10/08/14 18:18
Dibromomethane	< .001	mg/kg			WG747495	10/08/14 18:18
Dichlorodifluoromethane	< .005	mg/kg			WG747495	10/08/14 18:18
Ethylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Hexachloro-1,3-butadiene	< .001	mg/kg			WG747495	10/08/14 18:18
Isopropylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Methyl tert-butyl ether	< .001	mg/kg			WG747495	10/08/14 18:18
Methylene Chloride	< .005	mg/kg			WG747495	10/08/14 18:18
n-Butylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
n-Propylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Naphthalene	< .005	mg/kg			WG747495	10/08/14 18:18
p-Isopropyltoluene	< .001	mg/kg			WG747495	10/08/14 18:18
sec-Butylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Styrene	< .001	mg/kg			WG747495	10/08/14 18:18
tert-Butylbenzene	< .001	mg/kg			WG747495	10/08/14 18:18
Tetrachloroethene	< .001	mg/kg			WG747495	10/08/14 18:18
Toluene	< .005	mg/kg			WG747495	10/08/14 18:18
trans-1,2-Dichloroethene	< .001	mg/kg			WG747495	10/08/14 18:18
trans-1,3-Dichloropropene	< .001	mg/kg			WG747495	10/08/14 18:18
Trichloroethene	< .001	mg/kg			WG747495	10/08/14 18:18
Trichlorofluoromethane	< .005	mg/kg			WG747495	10/08/14 18:18
Vinyl chloride	< .001	mg/kg			WG747495	10/08/14 18:18
Xylenes, Total	< .003	mg/kg			WG747495	10/08/14 18:18
4-Bromofluorobenzene		% Rec.	92.40	71-126	WG747495	10/08/14 18:18
Dibromofluoromethane		% Rec.	98.30	78.3-121	WG747495	10/08/14 18:18
Toluene-d8		% Rec.	103.0	88.5-111	WG747495	10/08/14 18:18
1,2,4-Trimethylbenzene	< .001	mg/kg			WG747897	10/10/14 12:22
1,3,5-Trimethylbenzene	< .001	mg/kg			WG747897	10/10/14 12:22
4-Bromofluorobenzene		% Rec.	91.60	71-126	WG747897	10/10/14 12:22
Dibromofluoromethane		% Rec.	104.0	78.3-121	WG747897	10/10/14 12:22
Toluene-d8		% Rec.	98.50	88.5-111	WG747897	10/10/14 12:22

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	86.2	84.3	2.27	5	L725729-01	WG747185

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0245	98.1	74.2-124	WG746787
1,1,1-Trichloroethane	mg/l	.025	0.0247	98.8	73.2-123	WG746787
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0243	97.0	70.7-122	WG746787
1,1,2-Trichloroethane	mg/l	.025	0.0257	103.	77.7-118	WG746787
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0232	92.7	67.2-143	WG746787
1,1-Dichloroethane	mg/l	.025	0.0223	89.3	70.7-126	WG746787
1,1-Dichloroethene	mg/l	.025	0.0208	83.3	67.8-129	WG746787
1,1-Dichloropropene	mg/l	.025	0.0234	93.5	73.1-125	WG746787
1,2,3-Trichlorobenzene	mg/l	.025	0.0247	98.9	64.9-135	WG746787
1,2,3-Trichloropropane	mg/l	.025	0.0225	90.1	71.8-121	WG746787
1,2,3-Trimethylbenzene	mg/l	.025	0.0253	101.	72.3-116	WG746787
1,2,4-Trichlorobenzene	mg/l	.025	0.0256	102.	69.7-136	WG746787
1,2,4-Trimethylbenzene	mg/l	.025	0.0249	99.7	75-123	WG746787
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0230	92.1	65.4-128	WG746787
1,2-Dibromoethane	mg/l	.025	0.0237	94.7	76.6-121	WG746787
1,2-Dichlorobenzene	mg/l	.025	0.0267	107.	78.4-117	WG746787
1,2-Dichloroethane	mg/l	.025	0.0222	88.7	68.8-124	WG746787

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Quality Assurance Report
Level II

L725740

October 10, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,2-Dichloropropane	mg/l	.025	0.0223	89.1	76.5-119	WG746787
1,3,5-Trimethylbenzene	mg/l	.025	0.0254	101.	75.6-124	WG746787
1,3-Dichlorobenzene	mg/l	.025	0.0261	104.	70.8-128	WG746787
1,3-Dichloropropane	mg/l	.025	0.0227	90.7	77.4-117	WG746787
1,4-Dichlorobenzene	mg/l	.025	0.0262	105.	78.8-115	WG746787
2,2-Dichloropropane	mg/l	.025	0.0227	90.9	62.4-133	WG746787
2-Butanone (MEK)	mg/l	.125	0.0933	74.6	55-149	WG746787
2-Chloroethyl vinyl ether	mg/l	.125	0.108	86.3	43.8-150	WG746787
2-Chlorotoluene	mg/l	.025	0.0248	99.2	74.7-122	WG746787
4-Chlorotoluene	mg/l	.025	0.0251	100.	77.5-120	WG746787
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.106	84.7	70.5-133	WG746787
Acetone	mg/l	.125	0.0859	68.7	35.6-163	WG746787
Acrolein	mg/l	.125	0.0972	77.8	10-190	WG746787
Acrylonitrile	mg/l	.125	0.103	82.6	55.2-130	WG746787
Benzene	mg/l	.025	0.0228	91.4	74.8-121	WG746787
Bromobenzene	mg/l	.025	0.0244	97.5	77.5-116	WG746787
Bromodichloromethane	mg/l	.025	0.0232	92.9	75.1-116	WG746787
Bromoform	mg/l	.025	0.0241	96.4	67.5-130	WG746787
Bromomethane	mg/l	.025	0.0395	158.	49.9-162	WG746787
Carbon tetrachloride	mg/l	.025	0.0228	91.3	70.2-123	WG746787
Chlorobenzene	mg/l	.025	0.0245	97.8	78.1-119	WG746787
Chlorodibromomethane	mg/l	.025	0.0233	93.4	74-121	WG746787
Chloroethane	mg/l	.025	0.0237	94.9	61.7-135	WG746787
Chloroform	mg/l	.025	0.0231	92.4	76-121	WG746787
Chloromethane	mg/l	.025	0.0220	87.8	61.5-129	WG746787
cis-1,2-Dichloroethene	mg/l	.025	0.0240	96.0	76-119	WG746787
cis-1,3-Dichloropropene	mg/l	.025	0.0224	89.7	78.2-120	WG746787
Di-isopropyl ether	mg/l	.025	0.0222	89.0	65.6-132	WG746787
Dibromomethane	mg/l	.025	0.0219	87.6	79.5-118	WG746787
Dichlorodifluoromethane	mg/l	.025	0.0237	95.0	54.8-135	WG746787
Ethylbenzene	mg/l	.025	0.0253	101.	78.8-122	WG746787
Hexachloro-1,3-butadiene	mg/l	.025	0.0256	103.	64.7-129	WG746787
Isopropylbenzene	mg/l	.025	0.0259	104.	78.6-132	WG746787
Methyl tert-butyl ether	mg/l	.025	0.0225	90.0	71.2-126	WG746787
Methylene Chloride	mg/l	.025	0.0219	87.7	70.3-120	WG746787
n-Butylbenzene	mg/l	.025	0.0264	105.	76.2-126	WG746787
n-Propylbenzene	mg/l	.025	0.0254	102.	78.2-122	WG746787
Naphthalene	mg/l	.025	0.0241	96.2	68.4-128	WG746787
p-Isopropyltoluene	mg/l	.025	0.0253	101.	74-131	WG746787
sec-Butylbenzene	mg/l	.025	0.0261	104.	74.4-127	WG746787
Styrene	mg/l	.025	0.0252	101.	80.4-126	WG746787
tert-Butylbenzene	mg/l	.025	0.0255	102.	75.3-126	WG746787
Tetrachloroethene	mg/l	.025	0.0273	109.	72.6-126	WG746787
Toluene	mg/l	.025	0.0233	93.3	79.7-116	WG746787
trans-1,2-Dichloroethene	mg/l	.025	0.0240	96.0	72.6-121	WG746787
trans-1,3-Dichloropropene	mg/l	.025	0.0213	85.2	74.3-123	WG746787
Trichloroethene	mg/l	.025	0.0251	100.	77.7-118	WG746787
Trichlorofluoromethane	mg/l	.025	0.0229	91.5	63.5-135	WG746787
Vinyl chloride	mg/l	.025	0.0238	95.4	65.9-128	WG746787
Xylenes, Total	mg/l	.075	0.0772	103.	78.7-121	WG746787
4-Bromofluorobenzene				101.0	71-126	WG746787
Dibromofluoromethane				99.20	78.3-121	WG746787
Toluene-d8				109.0	88.5-111	WG746787
Total Solids	%	50	50.0	100.	85-115	WG747185
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0287	115.	72.9-124	WG747495

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Level II

L725740

October 10, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1,1-Trichloroethane	mg/kg	.025	0.0279	112.	73.7-124	WG747495
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0265	106.	69.4-122	WG747495
1,1,2-Trichloroethane	mg/kg	.025	0.0256	102.	79.1-118	WG747495
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0265	106.	70-146	WG747495
1,1-Dichloroethane	mg/kg	.025	0.0261	104.	75-124	WG747495
1,1-Dichloroethene	mg/kg	.025	0.0257	103.	70.4-129	WG747495
1,1-Dichloropropene	mg/kg	.025	0.0259	104.	74.9-124	WG747495
1,2,3-Trichlorobenzene	mg/kg	.025	0.0342	137.*	69.3-131	WG747495
1,2,3-Trichloropropane	mg/kg	.025	0.0269	108.	71.4-123	WG747495
1,2,3-Trimethylbenzene	mg/kg	.025	0.0268	107.	73.6-113	WG747495
1,2,4-Trichlorobenzene	mg/kg	.025	0.0296	118.	71.9-137	WG747495
1,2,4-Trimethylbenzene	mg/kg	.025	0.0258	103.	75.5-122	WG747495
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0281	112.	62.8-133	WG747495
1,2-Dibromoethane	mg/kg	.025	0.0266	106.	78.6-120	WG747495
1,2-Dichlorobenzene	mg/kg	.025	0.0270	108.	78.3-118	WG747495
1,2-Dichloroethane	mg/kg	.025	0.0273	109.	70.1-124	WG747495
1,2-Dichloropropane	mg/kg	.025	0.0261	104.	77.9-119	WG747495
1,3,5-Trimethylbenzene	mg/kg	.025	0.0255	102.	75.9-124	WG747495
1,3-Dichlorobenzene	mg/kg	.025	0.0258	103.	72-126	WG747495
1,3-Dichloropropane	mg/kg	.025	0.0260	104.	79.1-117	WG747495
1,4-Dichlorobenzene	mg/kg	.025	0.0255	102.	78.3-117	WG747495
2,2-Dichloropropane	mg/kg	.025	0.0283	113.	61.3-136	WG747495
2-Butanone (MEK)	mg/kg	.125	0.128	103.	53.7-153	WG747495
2-Chloroethyl vinyl ether	mg/kg	.125	0.122	97.4	37.7-157	WG747495
2-Chlorotoluene	mg/kg	.025	0.0255	102.	75.6-121	WG747495
4-Chlorotoluene	mg/kg	.025	0.0255	102.	77.3-120	WG747495
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.136	109.	70.4-137	WG747495
Acetone	mg/kg	.125	0.133	107.	35.1-175	WG747495
Acrylonitrile	mg/kg	.125	0.141	113.	56.4-128	WG747495
Benzene	mg/kg	.025	0.0254	101.	77.1-121	WG747495
Bromobenzene	mg/kg	.025	0.0248	99.2	78.2-115	WG747495
Bromodichloromethane	mg/kg	.025	0.0269	107.	74.9-115	WG747495
Bromoform	mg/kg	.025	0.0311	124.	65.9-132	WG747495
Bromomethane	mg/kg	.025	0.0289	116.	48.7-165	WG747495
Carbon tetrachloride	mg/kg	.025	0.0294	117.	70-124	WG747495
Chlorobenzene	mg/kg	.025	0.0255	102.	79.1-119	WG747495
Chlorodibromomethane	mg/kg	.025	0.0286	114.	73.5-121	WG747495
Chloroethane	mg/kg	.025	0.0298	119.	66.2-132	WG747495
Chloroform	mg/kg	.025	0.0267	107.	76.7-122	WG747495
Chloromethane	mg/kg	.025	0.0260	104.	63.4-131	WG747495
cis-1,2-Dichloroethene	mg/kg	.025	0.0262	105.	78.2-119	WG747495
cis-1,3-Dichloropropene	mg/kg	.025	0.0268	107.	79.6-120	WG747495
Di-isopropyl ether	mg/kg	.025	0.0265	106.	70.4-133	WG747495
Dibromomethane	mg/kg	.025	0.0270	108.	79.4-120	WG747495
Dichlorodifluoromethane	mg/kg	.025	0.0259	104.	57.1-137	WG747495
Ethylbenzene	mg/kg	.025	0.0260	104.	79.7-122	WG747495
Hexachloro-1,3-butadiene	mg/kg	.025	0.0289	116.	68.2-123	WG747495
Isopropylbenzene	mg/kg	.025	0.0264	106.	80-135	WG747495
Methyl tert-butyl ether	mg/kg	.025	0.0262	105.	73-129	WG747495
Methylene Chloride	mg/kg	.025	0.0237	94.9	72.6-120	WG747495
n-Butylbenzene	mg/kg	.025	0.0284	113.	77.5-126	WG747495
n-Propylbenzene	mg/kg	.025	0.0262	105.	77.9-123	WG747495
Naphthalene	mg/kg	.025	0.0294	118.	69.8-128	WG747495
p-Isopropyltoluene	mg/kg	.025	0.0271	109.	75.8-129	WG747495
sec-Butylbenzene	mg/kg	.025	0.0270	108.	75.8-126	WG747495
Styrene	mg/kg	.025	0.0266	106.	82.4-126	WG747495
tert-Butylbenzene	mg/kg	.025	0.0263	105.	76.4-126	WG747495
Tetrachloroethene	mg/kg	.025	0.0260	104.	73.9-125	WG747495
Toluene	mg/kg	.025	0.0253	101.	79.7-118	WG747495

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L725740

October 10, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
trans-1,2-Dichloroethene	mg/kg	.025	0.0257	103.	73.8-122	WG747495
trans-1,3-Dichloropropene	mg/kg	.025	0.0269	107.	75.9-124	WG747495
Trichloroethene	mg/kg	.025	0.0270	108.	77.9-118	WG747495
Trichlorofluoromethane	mg/kg	.025	0.0303	121.	67.7-131	WG747495
Vinyl chloride	mg/kg	.025	0.0275	110.	66.7-130	WG747495
Xylenes, Total	mg/kg	.075	0.0762	102.	78.8-121	WG747495
4-Bromofluorobenzene				95.40	71-126	WG747495
Dibromofluoromethane				102.0	78.3-121	WG747495
Toluene-d8				103.0	88.5-111	WG747495
1,2,4-Trimethylbenzene	mg/kg	.025	0.0271	108.	75.5-122	WG747897
1,3,5-Trimethylbenzene	mg/kg	.025	0.0273	109.	75.9-124	WG747897
4-Bromofluorobenzene				97.80	71-126	WG747897
Dibromofluoromethane				104.0	78.3-121	WG747897
Toluene-d8				101.0	88.5-111	WG747897

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0242	0.0245	97.0	74.2-124	1.12	20	WG746787
1,1,1-Trichloroethane	mg/l	0.0245	0.0247	98.0	73.2-123	0.970	20	WG746787
1,1,2,2-Tetrachloroethane	mg/l	0.0246	0.0243	98.0	70.7-122	1.51	20	WG746787
1,1,2-Trichloroethane	mg/l	0.0260	0.0257	104.	77.7-118	1.31	20	WG746787
1,1,2-Trichlorotrifluoroethane	mg/l	0.0230	0.0232	92.0	67.2-143	0.830	20	WG746787
1,1-Dichloroethane	mg/l	0.0222	0.0223	89.0	70.7-126	0.700	20	WG746787
1,1-Dichloroethene	mg/l	0.0207	0.0208	83.0	67.8-129	0.850	20	WG746787
1,1-Dichloropropene	mg/l	0.0235	0.0234	94.0	73.1-125	0.450	20	WG746787
1,2,3-Trichlorobenzene	mg/l	0.0238	0.0247	95.0	64.9-135	3.63	20	WG746787
1,2,3-Trichloropropane	mg/l	0.0230	0.0225	92.0	71.8-121	2.21	20	WG746787
1,2,3-Trimethylbenzene	mg/l	0.0258	0.0253	103.	72.3-116	1.99	20	WG746787
1,2,4-Trichlorobenzene	mg/l	0.0240	0.0256	96.0	69.7-136	6.52	20	WG746787
1,2,4-Trimethylbenzene	mg/l	0.0252	0.0249	101.	75-123	1.13	20	WG746787
1,2-Dibromo-3-Chloropropane	mg/l	0.0234	0.0230	93.0	65.4-128	1.47	20	WG746787
1,2-Dibromoethane	mg/l	0.0242	0.0237	97.0	76.6-121	2.15	20	WG746787
1,2-Dichlorobenzene	mg/l	0.0264	0.0267	106.	78.4-117	0.880	20	WG746787
1,2-Dichloroethane	mg/l	0.0219	0.0222	88.0	68.8-124	1.17	20	WG746787
1,2-Dichloropropane	mg/l	0.0224	0.0223	90.0	76.5-119	0.700	20	WG746787
1,3,5-Trimethylbenzene	mg/l	0.0260	0.0254	104.	75.6-124	2.68	20	WG746787
1,3-Dichlorobenzene	mg/l	0.0266	0.0261	106.	70.8-128	2.16	20	WG746787
1,3-Dichloropropane	mg/l	0.0236	0.0227	94.0	77.4-117	3.96	20	WG746787
1,4-Dichlorobenzene	mg/l	0.0267	0.0262	107.	78.8-115	1.67	20	WG746787
2,2-Dichloropropane	mg/l	0.0224	0.0227	90.0	62.4-133	1.21	20	WG746787
2-Butanone (MEK)	mg/l	0.0932	0.0933	74.0	55-149	0.0800	20	WG746787
2-Chloroethyl vinyl ether	mg/l	0.111	0.108	89.0	43.8-150	2.91	20	WG746787
2-Chlorotoluene	mg/l	0.0258	0.0248	103.	74.7-122	3.86	20	WG746787
4-Chlorotoluene	mg/l	0.0262	0.0251	105.	77.5-120	4.06	20	WG746787
4-Methyl-2-pentanone (MIBK)	mg/l	0.103	0.106	82.0	70.5-133	2.90	20	WG746787
Acetone	mg/l	0.0910	0.0859	73.0	35.6-163	5.80	23.9	WG746787
Acrolein	mg/l	0.0923	0.0972	74.0	10-190	5.19	28.1	WG746787
Acrylonitrile	mg/l	0.105	0.103	84.0	55.2-130	1.40	20	WG746787
Benzene	mg/l	0.0232	0.0228	93.0	74.8-121	1.78	20	WG746787
Bromobenzene	mg/l	0.0253	0.0244	101.	77.5-116	3.83	20	WG746787
Bromodichloromethane	mg/l	0.0232	0.0232	93.0	75.1-116	0.0900	20	WG746787
Bromoform	mg/l	0.0246	0.0241	98.0	67.5-130	2.20	20	WG746787
Bromomethane	mg/l	0.0308	0.0395	123.	49.9-162	24.7*	20	WG746787
Carbon tetrachloride	mg/l	0.0228	0.0228	91.0	70.2-123	0.320	20	WG746787
Chlorobenzene	mg/l	0.0252	0.0245	101.	78.1-119	3.07	20	WG746787
Chlorodibromomethane	mg/l	0.0237	0.0233	95.0	74-121	1.55	20	WG746787

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Seattle, WA 98161

Quality Assurance Report
Level II

L725740

October 10, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Chloroethane	mg/l	0.0238	0.0237	95.0	61.7-135	0.140	20	WG746787
Chloroform	mg/l	0.0227	0.0231	91.0	76-121	1.59	20	WG746787
Chloromethane	mg/l	0.0217	0.0220	87.0	61.5-129	1.11	20	WG746787
cis-1,2-Dichloroethene	mg/l	0.0238	0.0240	95.0	76-119	1.04	20	WG746787
cis-1,3-Dichloropropene	mg/l	0.0229	0.0224	92.0	78.2-120	2.14	20	WG746787
Di-isopropyl ether	mg/l	0.0218	0.0222	87.0	65.6-132	1.84	20	WG746787
Dibromomethane	mg/l	0.0216	0.0219	86.0	79.5-118	1.31	20	WG746787
Dichlorodifluoromethane	mg/l	0.0235	0.0237	94.0	54.8-135	0.860	20	WG746787
Ethylbenzene	mg/l	0.0262	0.0253	105.	78.8-122	3.23	20	WG746787
Hexachloro-1,3-butadiene	mg/l	0.0246	0.0256	98.0	64.7-129	3.93	20	WG746787
Isopropylbenzene	mg/l	0.0264	0.0259	106.	78.6-132	1.94	20	WG746787
Methyl tert-butyl ether	mg/l	0.0215	0.0225	86.0	71.2-126	4.45	20	WG746787
Methylene Chloride	mg/l	0.0212	0.0219	85.0	70.3-120	3.56	20	WG746787
n-Butylbenzene	mg/l	0.0265	0.0264	106.	76.2-126	0.680	20	WG746787
n-Propylbenzene	mg/l	0.0262	0.0254	105.	78.2-122	3.19	20	WG746787
Naphthalene	mg/l	0.0233	0.0241	93.0	68.4-128	3.30	20	WG746787
p-Isopropyltoluene	mg/l	0.0255	0.0253	102.	74-131	0.600	20	WG746787
sec-Butylbenzene	mg/l	0.0265	0.0261	106.	74.4-127	1.67	20	WG746787
Styrene	mg/l	0.0265	0.0252	106.	80.4-126	4.87	20	WG746787
tert-Butylbenzene	mg/l	0.0261	0.0255	104.	75.3-126	2.28	20	WG746787
Tetrachloroethene	mg/l	0.0277	0.0273	111.	72.6-126	1.21	20	WG746787
Toluene	mg/l	0.0239	0.0233	96.0	79.7-116	2.47	20	WG746787
trans-1,2-Dichloroethene	mg/l	0.0236	0.0240	94.0	72.6-121	1.73	20	WG746787
trans-1,3-Dichloropropene	mg/l	0.0215	0.0213	86.0	74.3-123	0.910	20	WG746787
Trichloroethene	mg/l	0.0250	0.0251	100.	77.7-118	0.330	20	WG746787
Trichlorofluoromethane	mg/l	0.0231	0.0229	92.0	63.5-135	0.920	20	WG746787
Vinyl chloride	mg/l	0.0233	0.0238	93.0	65.9-128	2.32	20	WG746787
Xylenes, Total	mg/l	0.0792	0.0772	106.	78.7-121	2.54	20	WG746787
4-Bromofluorobenzene				103.0	71-126			WG746787
Dibromofluoromethane				98.10	78.3-121			WG746787
Toluene-d8				110.0	88.5-111			WG746787
1,1,1,2-Tetrachloroethane	mg/kg	0.0272	0.0287	109.	72.9-124	5.27	20	WG747495
1,1,1-Trichloroethane	mg/kg	0.0272	0.0279	109.	73.7-124	2.85	20	WG747495
1,1,2,2-Tetrachloroethane	mg/kg	0.0246	0.0265	98.0	69.4-122	7.48	20	WG747495
1,1,2-Trichloroethane	mg/kg	0.0250	0.0256	100.	79.1-118	2.53	20	WG747495
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0252	0.0265	101.	70-146	4.90	20	WG747495
1,1-Dichloroethane	mg/kg	0.0246	0.0261	98.0	75-124	6.13	20	WG747495
1,1-Dichloroethene	mg/kg	0.0236	0.0257	94.0	70.4-129	8.27	20	WG747495
1,1-Dichloropropene	mg/kg	0.0250	0.0259	100.	74.9-124	3.77	20	WG747495
1,2,3-Trichlorobenzene	mg/kg	0.0305	0.0342	122.	69.3-131	11.3	20	WG747495
1,2,3-Trichloropropane	mg/kg	0.0243	0.0269	97.0	71.4-123	10.1	20	WG747495
1,2,3-Trimethylbenzene	mg/kg	0.0258	0.0268	103.	73.6-113	3.71	20	WG747495
1,2,4-Trichlorobenzene	mg/kg	0.0270	0.0296	108.	71.9-137	8.99	20	WG747495
1,2,4-Trimethylbenzene	mg/kg	0.0241	0.0258	96.0	75.5-122	6.87	20	WG747495
1,2-Dibromo-3-Chloropropane	mg/kg	0.0239	0.0281	96.0	62.8-133	16.0	20	WG747495
1,2-Dibromoethane	mg/kg	0.0245	0.0266	98.0	78.6-120	8.16	20	WG747495
1,2-Dichlorobenzene	mg/kg	0.0256	0.0270	102.	78.3-118	5.26	20	WG747495
1,2-Dichloroethane	mg/kg	0.0258	0.0273	103.	70.1-124	5.64	20	WG747495
1,2-Dichloropropane	mg/kg	0.0250	0.0261	100.	77.9-119	4.27	20	WG747495
1,3,5-Trimethylbenzene	mg/kg	0.0244	0.0255	98.0	75.9-124	4.15	20	WG747495
1,3-Dichlorobenzene	mg/kg	0.0241	0.0258	96.0	72-126	6.73	20	WG747495
1,3-Dichloropropane	mg/kg	0.0241	0.0260	96.0	79.1-117	7.73	20	WG747495
1,4-Dichlorobenzene	mg/kg	0.0243	0.0255	97.0	78.3-117	4.90	20	WG747495
2,2-Dichloropropane	mg/kg	0.0283	0.0283	113.	61.3-136	0.110	20	WG747495
2-Butanone (MEK)	mg/kg	0.117	0.128	93.0	53.7-153	9.47	21.2	WG747495
2-Chloroethyl vinyl ether	mg/kg	0.113	0.122	91.0	37.7-157	7.06	20	WG747495
2-Chlorotoluene	mg/kg	0.0240	0.0255	96.0	75.6-121	6.07	20	WG747495

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Quality Assurance Report
Level II

L725740

October 10, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
4-Chlorotoluene	mg/kg	0.0239	0.0255	95.0	77.3-120	6.57	20	WG747495
4-Methyl-2-pentanone (MIBK)	mg/kg	0.122	0.136	98.0	70.4-137	10.5	20	WG747495
Acetone	mg/kg	0.113	0.133	90.0	35.1-175	16.6	26.1	WG747495
Acrylonitrile	mg/kg	0.129	0.141	103.	56.4-128	8.64	20	WG747495
Benzene	mg/kg	0.0243	0.0254	97.0	77.1-121	4.51	20	WG747495
Bromobenzene	mg/kg	0.0234	0.0248	94.0	78.2-115	5.64	20	WG747495
Bromodichloromethane	mg/kg	0.0258	0.0269	103.	74.9-115	3.89	20	WG747495
Bromoform	mg/kg	0.0287	0.0311	115.	65.9-132	8.04	20	WG747495
Bromomethane	mg/kg	0.0282	0.0289	113.	48.7-165	2.66	20	WG747495
Carbon tetrachloride	mg/kg	0.0293	0.0294	117.	70-124	0.0600	20	WG747495
Chlorobenzene	mg/kg	0.0243	0.0255	97.0	79.1-119	4.72	20	WG747495
Chlorodibromomethane	mg/kg	0.0268	0.0286	107.	73.5-121	6.42	20	WG747495
Chloroethane	mg/kg	0.0280	0.0298	112.	66.2-132	6.16	20	WG747495
Chloroform	mg/kg	0.0263	0.0267	105.	76.7-122	1.35	20	WG747495
Chloromethane	mg/kg	0.0251	0.0260	100.	63.4-131	3.43	20	WG747495
cis-1,2-Dichloroethene	mg/kg	0.0254	0.0262	102.	78.2-119	3.02	20	WG747495
cis-1,3-Dichloropropene	mg/kg	0.0256	0.0268	102.	79.6-120	4.60	20	WG747495
Di-isopropyl ether	mg/kg	0.0260	0.0265	104.	70.4-133	1.93	20	WG747495
Dibromomethane	mg/kg	0.0254	0.0270	102.	79.4-120	5.95	20	WG747495
Dichlorodifluoromethane	mg/kg	0.0244	0.0259	98.0	57.1-137	6.18	20	WG747495
Ethylbenzene	mg/kg	0.0241	0.0260	96.0	79.7-122	7.75	20	WG747495
Hexachloro-1,3-butadiene	mg/kg	0.0268	0.0289	107.	68.2-123	7.67	20	WG747495
Isopropylbenzene	mg/kg	0.0243	0.0264	97.0	80-135	8.40	20	WG747495
Methyl tert-butyl ether	mg/kg	0.0260	0.0262	104.	73-129	0.810	20	WG747495
Methylene Chloride	mg/kg	0.0229	0.0237	92.0	72.6-120	3.37	20	WG747495
n-Butylbenzene	mg/kg	0.0272	0.0284	109.	77.5-126	4.35	20	WG747495
n-Propylbenzene	mg/kg	0.0241	0.0262	96.0	77.9-123	8.52	20	WG747495
Naphthalene	mg/kg	0.0267	0.0294	107.	69.8-128	9.83	20	WG747495
p-Isopropyltoluene	mg/kg	0.0251	0.0271	100.	75.8-129	7.80	20	WG747495
sec-Butylbenzene	mg/kg	0.0250	0.0270	100.	75.8-126	7.76	20	WG747495
Styrene	mg/kg	0.0253	0.0266	101.	82.4-126	4.98	20	WG747495
tert-Butylbenzene	mg/kg	0.0241	0.0263	96.0	76.4-126	8.48	20	WG747495
Tetrachloroethene	mg/kg	0.0254	0.0260	102.	73.9-125	2.48	20	WG747495
Toluene	mg/kg	0.0241	0.0253	96.0	79.7-118	4.81	20	WG747495
trans-1,2-Dichloroethene	mg/kg	0.0246	0.0257	98.0	73.8-122	4.53	20	WG747495
trans-1,3-Dichloropropene	mg/kg	0.0259	0.0269	104.	75.9-124	3.49	20	WG747495
Trichloroethene	mg/kg	0.0249	0.0270	99.0	77.9-118	8.13	20	WG747495
Trichlorofluoromethane	mg/kg	0.0291	0.0303	116.	67.7-131	4.15	20	WG747495
Vinyl chloride	mg/kg	0.0258	0.0275	103.	66.7-130	6.42	20	WG747495
Xylenes, Total	mg/kg	0.0713	0.0762	95.0	78.8-121	6.58	20	WG747495
4-Bromofluorobenzene				95.50	71-126			WG747495
Dibromofluoromethane				101.0	78.3-121			WG747495
Toluene-d8				102.0	88.5-111			WG747495
1,2,4-Trimethylbenzene	mg/kg	0.0259	0.0271	104.	75.5-122	4.25	20	WG747897
1,3,5-Trimethylbenzene	mg/kg	0.0264	0.0273	106.	75.9-124	3.40	20	WG747897
4-Bromofluorobenzene				97.40	71-126			WG747897
Dibromofluoromethane				106.0	78.3-121			WG747897
Toluene-d8				100.0	88.5-111			WG747897

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0255	0.0	.025	100.	64-128	L725724-22	WG746787
1,1,1-Trichloroethane	mg/l	0.0268	0.0	.025	110.	58.7-134	L725724-22	WG746787
1,1,2,2-Tetrachloroethane	mg/l	0.0276	0.0	.025	110.	56-132	L725724-22	WG746787
1,1,2-Trichloroethane	mg/l	0.0280	0.0	.025	110.	66.3-125	L725724-22	WG746787
1,1,2-Trichlorotrifluoroethane	mg/l	0.0259	0.0	.025	100.	54.8-154	L725724-22	WG746787

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethane	mg/l	0.0235	0.0	.025	94.0	58.5-132	L725724-22	WG746787
1,1-Dichloroethene	mg/l	0.0225	0.0	.025	90.0	51.1-140	L725724-22	WG746787
1,1-Dichloropropene	mg/l	0.0249	0.0	.025	100.	57.3-136	L725724-22	WG746787
1,2,3-Trichlorobenzene	mg/l	0.0266	0.0	.025	110.	59.1-138	L725724-22	WG746787
1,2,3-Trichloropropane	mg/l	0.0257	0.0	.025	100.	61.4-128	L725724-22	WG746787
1,2,3-Trimethylbenzene	mg/l	0.0273	0.0	.025	110.	61.3-122	L725724-22	WG746787
1,2,4-Trichlorobenzene	mg/l	0.0269	0.0	.025	110.	63.6-143	L725724-22	WG746787
1,2,4-Trimethylbenzene	mg/l	0.0270	0.0	.025	110.	57.4-137	L725724-22	WG746787
1,2-Dibromo-3-Chloropropane	mg/l	0.0267	0.0	.025	110.	57.3-136	L725724-22	WG746787
1,2-Dibromoethane	mg/l	0.0263	0.0	.025	100.	67.1-125	L725724-22	WG746787
1,2-Dichlorobenzene	mg/l	0.0286	0.0	.025	110.	68.2-123	L725724-22	WG746787
1,2-Dichloroethane	mg/l	0.0241	0.0	.025	97.0	60-126	L725724-22	WG746787
1,2-Dichloropropane	mg/l	0.0242	0.0	.025	97.0	64.2-123	L725724-22	WG746787
1,3,5-Trimethylbenzene	mg/l	0.0277	0.0	.025	110.	63.6-132	L725724-22	WG746787
1,3-Dichlorobenzene	mg/l	0.0286	0.0	.025	110.	63.1-131	L725724-22	WG746787
1,3-Dichloropropane	mg/l	0.0256	0.0	.025	100.	67.9-121	L725724-22	WG746787
1,4-Dichlorobenzene	mg/l	0.0288	0.0	.025	120.	68.6-123	L725724-22	WG746787
2,2-Dichloropropane	mg/l	0.0244	0.0	.025	97.0	50.5-144	L725724-22	WG746787
2-Butanone (MEK)	mg/l	0.118	0.00641	.125	90.0	22.4-138	L725724-22	WG746787
2-Chloroethyl vinyl ether	mg/l	0.0121	0.0	.125	9.70*	10-155	L725724-22	WG746787
2-Chlorotoluene	mg/l	0.0280	0.0	.025	110.	63.6-128	L725724-22	WG746787
4-Chlorotoluene	mg/l	0.0281	0.0	.025	110.	65.7-127	L725724-22	WG746787
4-Methyl-2-pentanone (MIBK)	mg/l	0.122	0.0	.125	97.0	60.8-140	L725724-22	WG746787
Acetone	mg/l	0.129	0.0215	.125	86.0	10-130	L725724-22	WG746787
Acrolein	mg/l	0.114	0.0	.125	91.0	10-200	L725724-22	WG746787
Acrylonitrile	mg/l	0.123	0.0	.125	99.0	49.4-133	L725724-22	WG746787
Benzene	mg/l	0.0243	0.0	.025	97.0	54.3-133	L725724-22	WG746787
Bromobenzene	mg/l	0.0267	0.0	.025	110.	63.9-124	L725724-22	WG746787
Bromodichloromethane	mg/l	0.0253	0.0	.025	100.	63.9-121	L725724-22	WG746787
Bromoform	mg/l	0.0273	0.0	.025	110.	59.5-134	L725724-22	WG746787
Bromomethane	mg/l	0.0278	0.0	.025	110.	41.7-155	L725724-22	WG746787
Carbon tetrachloride	mg/l	0.0244	0.0	.025	98.0	55.7-134	L725724-22	WG746787
Chlorobenzene	mg/l	0.0268	0.0	.025	110.	67-125	L725724-22	WG746787
Chlorodibromomethane	mg/l	0.0255	0.0	.025	100.	64.3-125	L725724-22	WG746787
Chloroethane	mg/l	0.0237	0.0	.025	95.0	51.5-136	L725724-22	WG746787
Chloroform	mg/l	0.0242	0.0	.025	97.0	63-129	L725724-22	WG746787
Chloromethane	mg/l	0.0226	0.0	.025	90.0	42.4-135	L725724-22	WG746787
cis-1,2-Dichloroethene	mg/l	0.0288	0.00343	.025	100.	59.2-129	L725724-22	WG746787
cis-1,3-Dichloropropene	mg/l	0.0242	0.0	.025	97.0	66.4-125	L725724-22	WG746787
Di-isopropyl ether	mg/l	0.0230	0.0	.025	92.0	56.9-136	L725724-22	WG746787
Dibromomethane	mg/l	0.0236	0.0	.025	94.0	68.2-124	L725724-22	WG746787
Dichlorodifluoromethane	mg/l	0.0272	0.0	.025	110.	40.6-144	L725724-22	WG746787
Ethylbenzene	mg/l	0.0278	0.0	.025	110.	61.4-133	L725724-22	WG746787
Hexachloro-1,3-butadiene	mg/l	0.0278	0.0	.025	110.	55.1-136	L725724-22	WG746787
Isopropylbenzene	mg/l	0.0284	0.0	.025	110.	66.8-141	L725724-22	WG746787
Methyl tert-butyl ether	mg/l	0.0234	0.0	.025	94.0	57.7-134	L725724-22	WG746787
Methylene Chloride	mg/l	0.0225	0.0	.025	90.0	58.1-122	L725724-22	WG746787
n-Butylbenzene	mg/l	0.0290	0.0	.025	120.	62.7-140	L725724-22	WG746787
n-Propylbenzene	mg/l	0.0281	0.0	.025	110.	65.9-131	L725724-22	WG746787
Naphthalene	mg/l	0.0260	0.0	.025	100.	58-135	L725724-22	WG746787
p-Isopropyltoluene	mg/l	0.0282	0.0	.025	110.	63.2-139	L725724-22	WG746787
sec-Butylbenzene	mg/l	0.0288	0.0	.025	120.	62.2-136	L725724-22	WG746787
Styrene	mg/l	0.0276	0.0	.025	110.	66.8-133	L725724-22	WG746787
tert-Butylbenzene	mg/l	0.0281	0.0	.025	110.	63.3-134	L725724-22	WG746787
Tetrachloroethene	mg/l	0.0307	0.00115	.025	120.	53-139	L725724-22	WG746787
Toluene	mg/l	0.0254	0.0	.025	100.	61.4-130	L725724-22	WG746787
trans-1,2-Dichloroethene	mg/l	0.0252	0.000329	.025	99.0	56.5-129	L725724-22	WG746787
trans-1,3-Dichloropropene	mg/l	0.0238	0.0	.025	95.0	64.1-128	L725724-22	WG746787
Trichloroethene	mg/l	0.0328	0.00663	.025	100.	44.1-149	L725724-22	WG746787

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichlorofluoromethane	mg/l	0.0261	0.0	.025	100.	49.6-145	L725724-22	WG746787
Vinyl chloride	mg/l	0.0250	0.0	.025	100.	47.8-137	L725724-22	WG746787
Xylenes, Total	mg/l	0.0833	0.0	.075	110.	63.3-131	L725724-22	WG746787
4-Bromofluorobenzene					102.0	71-126		WG746787
Dibromofluoromethane					98.20	78.3-121		WG746787
Toluene-d8					108.0	88.5-111		WG746787
1,1,1,2-Tetrachloroethane	mg/kg	0.106	0.0	.025	84.0	64-128	L725743-01	WG747495
1,1,1-Trichloroethane	mg/kg	0.117	0.0	.025	94.0	58.7-134	L725743-01	WG747495
1,1,2,2-Tetrachloroethane	mg/kg	0.101	0.0	.025	81.0	56-132	L725743-01	WG747495
1,1,2-Trichloroethane	mg/kg	0.0969	0.0	.025	78.0	66.3-125	L725743-01	WG747495
1,1,2-Trichlorotrifluoroethane	mg/kg	0.104	0.0	.025	83.0	54.8-154	L725743-01	WG747495
1,1-Dichloroethane	mg/kg	0.103	0.0	.025	82.0	58.5-132	L725743-01	WG747495
1,1-Dichloroethene	mg/kg	0.104	0.0	.025	84.0	51.1-140	L725743-01	WG747495
1,1-Dichloropropene	mg/kg	0.105	0.0	.025	84.0	57.3-136	L725743-01	WG747495
1,2,3-Trichlorobenzene	mg/kg	0.112	0.0	.025	89.0	59.1-138	L725743-01	WG747495
1,2,3-Trichloropropane	mg/kg	0.105	0.0	.025	84.0	61.4-128	L725743-01	WG747495
1,2,3-Trimethylbenzene	mg/kg	0.0970	0.0	.025	78.0	61.3-122	L725743-01	WG747495
1,2,4-Trichlorobenzene	mg/kg	0.0984	0.0	.025	79.0	63.6-143	L725743-01	WG747495
1,2,4-Trimethylbenzene	mg/kg	0.0939	0.0	.025	75.0	57.4-137	L725743-01	WG747495
1,2-Dibromo-3-Chloropropane	mg/kg	0.111	0.0	.025	89.0	57.3-136	L725743-01	WG747495
1,2-Dibromoethane	mg/kg	0.0980	0.0	.025	78.0	67.1-125	L725743-01	WG747495
1,2-Dichlorobenzene	mg/kg	0.0950	0.0	.025	76.0	68.2-123	L725743-01	WG747495
1,2-Dichloroethane	mg/kg	0.102	0.0	.025	82.0	60-126	L725743-01	WG747495
1,2-Dichloropropane	mg/kg	0.101	0.0	.025	81.0	64.2-123	L725743-01	WG747495
1,3,5-Trimethylbenzene	mg/kg	0.0963	0.0	.025	77.0	63.6-132	L725743-01	WG747495
1,3-Dichlorobenzene	mg/kg	0.0887	0.0	.025	71.0	63.1-131	L725743-01	WG747495
1,3-Dichloropropane	mg/kg	0.0980	0.0	.025	78.0	67.9-121	L725743-01	WG747495
1,4-Dichlorobenzene	mg/kg	0.0901	0.000317	.025	72.0	68.6-123	L725743-01	WG747495
2,2-Dichloropropane	mg/kg	0.124	0.0	.025	100.	50.5-144	L725743-01	WG747495
2-Butanone (MEK)	mg/kg	0.562	0.0	.125	90.0	22.4-138	L725743-01	WG747495
2-Chloroethyl vinyl ether	mg/kg	0.486	0.0	.125	78.0	10-155	L725743-01	WG747495
2-Chlorotoluene	mg/kg	0.0962	0.0	.025	77.0	63.6-128	L725743-01	WG747495
4-Chlorotoluene	mg/kg	0.0919	0.0	.025	74.0	65.7-127	L725743-01	WG747495
4-Methyl-2-pentanone (MIBK)	mg/kg	0.581	0.0	.125	93.0	60.8-140	L725743-01	WG747495
Acetone	mg/kg	0.550	0.0129	.125	86.0	10-130	L725743-01	WG747495
Acrylonitrile	mg/kg	0.610	0.0	.125	98.0	49.4-133	L725743-01	WG747495
Benzene	mg/kg	0.100	0.0	.025	80.0	54.3-133	L725743-01	WG747495
Bromobenzene	mg/kg	0.0910	0.0	.025	73.0	63.9-124	L725743-01	WG747495
Bromodichloromethane	mg/kg	0.104	0.0	.025	83.0	63.9-121	L725743-01	WG747495
Bromoform	mg/kg	0.118	0.0	.025	94.0	59.5-134	L725743-01	WG747495
Bromomethane	mg/kg	0.117	0.0	.025	94.0	41.7-155	L725743-01	WG747495
Carbon tetrachloride	mg/kg	0.127	0.0	.025	100.	55.7-134	L725743-01	WG747495
Chlorobenzene	mg/kg	0.0953	0.0	.025	76.0	67-125	L725743-01	WG747495
Chlorodibromomethane	mg/kg	0.103	0.0	.025	83.0	64.3-125	L725743-01	WG747495
Chloroethane	mg/kg	0.126	0.0	.025	100.	51.5-136	L725743-01	WG747495
Chloroform	mg/kg	0.107	0.0	.025	86.0	63-129	L725743-01	WG747495
Chloromethane	mg/kg	0.107	0.0	.025	86.0	42.4-135	L725743-01	WG747495
cis-1,2-Dichloroethene	mg/kg	0.103	0.0	.025	83.0	59.2-129	L725743-01	WG747495
cis-1,3-Dichloropropene	mg/kg	0.104	0.0	.025	83.0	66.4-125	L725743-01	WG747495
Di-isopropyl ether	mg/kg	0.101	0.0	.025	80.0	56.9-136	L725743-01	WG747495
Dibromomethane	mg/kg	0.102	0.0	.025	82.0	68.2-124	L725743-01	WG747495
Dichlorodifluoromethane	mg/kg	0.105	0.0	.025	84.0	40.6-144	L725743-01	WG747495
Ethylbenzene	mg/kg	0.102	0.0	.025	82.0	61.4-133	L725743-01	WG747495
Hexachloro-1,3-butadiene	mg/kg	0.105	0.0	.025	84.0	55.1-136	L725743-01	WG747495
Isopropylbenzene	mg/kg	0.101	0.0	.025	81.0	66.8-141	L725743-01	WG747495
Methyl tert-butyl ether	mg/kg	0.0991	0.0	.025	79.0	57.7-134	L725743-01	WG747495
Methylene Chloride	mg/kg	0.0951	0.000917	.025	75.0	58.1-122	L725743-01	WG747495

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n-Butylbenzene	mg/kg	0.102	0.0	.025	82.0	62.7-140	L725743-01	WG747495
n-Propylbenzene	mg/kg	0.0982	0.0	.025	79.0	10-176	L725743-01	WG747495
Naphthalene	mg/kg	0.109	0.0	.025	88.0	58-135	L725743-01	WG747495
p-Isopropyltoluene	mg/kg	0.0980	0.0	.025	78.0	63.2-139	L725743-01	WG747495
sec-Butylbenzene	mg/kg	0.100	0.0	.025	80.0	62.2-136	L725743-01	WG747495
Styrene	mg/kg	0.0964	0.0	.025	77.0	66.8-133	L725743-01	WG747495
tert-Butylbenzene	mg/kg	0.101	0.0	.025	80.0	63.3-134	L725743-01	WG747495
Tetrachloroethene	mg/kg	0.103	0.0	.025	82.0	53-139	L725743-01	WG747495
Toluene	mg/kg	0.100	0.0	.025	80.0	61.4-130	L725743-01	WG747495
trans-1,2-Dichloroethene	mg/kg	0.105	0.0	.025	84.0	56.5-129	L725743-01	WG747495
trans-1,3-Dichloropropene	mg/kg	0.102	0.00232	.025	80.0	64.1-128	L725743-01	WG747495
Trichloroethene	mg/kg	0.110	0.0	.025	88.0	44.1-149	L725743-01	WG747495
Trichlorofluoromethane	mg/kg	0.132	0.0	.025	100.	49.6-145	L725743-01	WG747495
Vinyl chloride	mg/kg	0.117	0.0	.025	94.0	47.8-137	L725743-01	WG747495
Xylenes, Total	mg/kg	0.283	0.000332	.075	75.0	63.3-131	L725743-01	WG747495
4-Bromofluorobenzene					94.20	71-126		WG747495
Dibromofluoromethane					99.70	78.3-121		WG747495
Toluene-d8					104.0	88.5-111		WG747495
1,2,4-Trimethylbenzene	mg/kg	0.124	0.000533	.025	99.0	57.4-137	L726738-01	WG747897
1,3,5-Trimethylbenzene	mg/kg	0.129	0.0	.025	100.	63.6-132	L726738-01	WG747897
4-Bromofluorobenzene					97.80	71-126		WG747897
Dibromofluoromethane					105.0	78.3-121		WG747897
Toluene-d8					100.0	88.5-111		WG747897

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/l	0.0251	0.0255	100.	64-128	1.68	20	L725724-22	WG746787
1,1,1-Trichloroethane	mg/l	0.0258	0.0268	103.	58.7-134	3.91	20	L725724-22	WG746787
1,1,2,2-Tetrachloroethane	mg/l	0.0276	0.0276	110.	56-132	0.100	22.2	L725724-22	WG746787
1,1,2-Trichloroethane	mg/l	0.0275	0.0280	110.	66.3-125	1.78	20	L725724-22	WG746787
1,1,2-Trichlorotrifluoroethane	mg/l	0.0241	0.0259	96.6	54.8-154	6.86	22.5	L725724-22	WG746787
1,1-Dichloroethane	mg/l	0.0230	0.0235	91.8	58.5-132	2.19	20	L725724-22	WG746787
1,1-Dichloroethene	mg/l	0.0208	0.0225	83.2	51.1-140	7.93	20.2	L725724-22	WG746787
1,1-Dichloropropene	mg/l	0.0240	0.0249	95.8	57.3-136	3.72	20	L725724-22	WG746787
1,2,3-Trichlorobenzene	mg/l	0.0262	0.0266	105.	59.1-138	1.74	23.7	L725724-22	WG746787
1,2,3-Trichloropropane	mg/l	0.0260	0.0257	104.	61.4-128	1.17	22.4	L725724-22	WG746787
1,2,3-Trimethylbenzene	mg/l	0.0267	0.0273	107.	61.3-122	1.99	20	L725724-22	WG746787
1,2,4-Trichlorobenzene	mg/l	0.0267	0.0269	107.	63.6-143	0.880	21.9	L725724-22	WG746787
1,2,4-Trimethylbenzene	mg/l	0.0265	0.0270	106.	57.4-137	2.02	20	L725724-22	WG746787
1,2-Dibromo-3-Chloropropane	mg/l	0.0268	0.0267	107.	57.3-136	0.260	27	L725724-22	WG746787
1,2-Dibromoethane	mg/l	0.0251	0.0263	100.	67.1-125	4.87	20	L725724-22	WG746787
1,2-Dichlorobenzene	mg/l	0.0281	0.0286	112.	68.2-123	1.76	20	L725724-22	WG746787
1,2-Dichloroethane	mg/l	0.0235	0.0241	94.0	60-126	2.65	20	L725724-22	WG746787
1,2-Dichloropropane	mg/l	0.0227	0.0242	90.8	64.2-123	6.42	20	L725724-22	WG746787
1,3,5-Trimethylbenzene	mg/l	0.0271	0.0277	108.	63.6-132	2.15	20.5	L725724-22	WG746787
1,3-Dichlorobenzene	mg/l	0.0277	0.0286	111.	63.1-131	3.35	20	L725724-22	WG746787
1,3-Dichloropropane	mg/l	0.0244	0.0256	97.5	67.9-121	4.94	20	L725724-22	WG746787
1,4-Dichlorobenzene	mg/l	0.0275	0.0288	110.	68.6-123	4.37	20	L725724-22	WG746787
2,2-Dichloropropane	mg/l	0.0239	0.0244	95.6	50.5-144	1.89	21.9	L725724-22	WG746787
2-Butanone (MEK)	mg/l	0.115	0.118	86.8	22.4-138	3.00	27	L725724-22	WG746787
2-Chloroethyl vinyl ether	mg/l	0.00179	0.0121	1.43*	10-155	149.*	20	L725724-22	WG746787
2-Chlorotoluene	mg/l	0.0268	0.0280	107.	63.6-128	4.26	20	L725724-22	WG746787
4-Chlorotoluene	mg/l	0.0264	0.0281	105.	65.7-127	6.57	20	L725724-22	WG746787
4-Methyl-2-pentanone (MIBK)	mg/l	0.120	0.122	95.9	60.8-140	1.41	25.1	L725724-22	WG746787
Acetone	mg/l	0.125	0.129	82.4	10-130	3.41	27.9	L725724-22	WG746787
Acrolein	mg/l	0.118	0.114	94.5	10-200	3.72	27.7	L725724-22	WG746787

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Quality Assurance Report
Level II

L725740

October 10, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Acrylonitrile	mg/l	0.123	0.123	98.8	49.4-133	0.120	25.3	L725724-22	WG746787
Benzene	mg/l	0.0231	0.0243	92.5	54.3-133	4.82	20	L725724-22	WG746787
Bromobenzene	mg/l	0.0258	0.0267	103.	63.9-124	3.34	20	L725724-22	WG746787
Bromodichloromethane	mg/l	0.0242	0.0253	97.0	63.9-121	4.45	20	L725724-22	WG746787
Bromoform	mg/l	0.0267	0.0273	107.	59.5-134	2.45	20.5	L725724-22	WG746787
Bromomethane	mg/l	0.0285	0.0278	114.	41.7-155	2.61	21.9	L725724-22	WG746787
Carbon tetrachloride	mg/l	0.0234	0.0244	93.6	55.7-134	4.14	20	L725724-22	WG746787
Chlorobenzene	mg/l	0.0250	0.0268	100.	67-125	6.93	20	L725724-22	WG746787
Chlorodibromomethane	mg/l	0.0248	0.0255	99.0	64.3-125	2.92	20.8	L725724-22	WG746787
Chloroethane	mg/l	0.0239	0.0237	95.4	51.5-136	0.790	40	L725724-22	WG746787
Chloroform	mg/l	0.0235	0.0242	94.0	63-129	3.00	20	L725724-22	WG746787
Chloromethane	mg/l	0.0219	0.0226	87.6	42.4-135	3.27	20	L725724-22	WG746787
cis-1,2-Dichloroethene	mg/l	0.0280	0.0288	98.3	59.2-129	2.65	20	L725724-22	WG746787
cis-1,3-Dichloropropene	mg/l	0.0229	0.0242	91.6	66.4-125	5.31	20	L725724-22	WG746787
Di-isopropyl ether	mg/l	0.0233	0.0230	93.2	56.9-136	1.16	20	L725724-22	WG746787
Dibromomethane	mg/l	0.0232	0.0236	92.8	68.2-124	1.86	20	L725724-22	WG746787
Dichlorodifluoromethane	mg/l	0.0261	0.0272	104.	40.6-144	4.06	20.2	L725724-22	WG746787
Ethylbenzene	mg/l	0.0260	0.0278	104.	61.4-133	6.57	20	L725724-22	WG746787
Hexachloro-1,3-butadiene	mg/l	0.0257	0.0278	103.	55.1-136	7.63	23.6	L725724-22	WG746787
Isopropylbenzene	mg/l	0.0272	0.0284	109.	66.8-141	4.27	20	L725724-22	WG746787
Methyl tert-butyl ether	mg/l	0.0240	0.0234	96.1	57.7-134	2.51	20	L725724-22	WG746787
Methylene Chloride	mg/l	0.0224	0.0225	89.6	58.1-122	0.450	20	L725724-22	WG746787
n-Butylbenzene	mg/l	0.0272	0.0290	109.	62.7-140	6.21	20.3	L725724-22	WG746787
n-Propylbenzene	mg/l	0.0269	0.0281	108.	65.9-131	4.33	20	L725724-22	WG746787
Naphthalene	mg/l	0.0274	0.0260	110.	58-135	5.32	25.5	L725724-22	WG746787
p-Isopropyltoluene	mg/l	0.0267	0.0282	107.	63.2-139	5.45	20.4	L725724-22	WG746787
sec-Butylbenzene	mg/l	0.0277	0.0288	111.	62.2-136	3.84	20.3	L725724-22	WG746787
Styrene	mg/l	0.0265	0.0276	106.	66.8-133	3.88	20	L725724-22	WG746787
tert-Butylbenzene	mg/l	0.0274	0.0281	109.	63.3-134	2.81	21	L725724-22	WG746787
Tetrachloroethene	mg/l	0.0288	0.0307	111.	53-139	6.31	20	L725724-22	WG746787
Toluene	mg/l	0.0242	0.0254	97.0	61.4-130	4.75	20	L725724-22	WG746787
trans-1,2-Dichloroethene	mg/l	0.0244	0.0252	96.3	56.5-129	3.15	20	L725724-22	WG746787
trans-1,3-Dichloropropene	mg/l	0.0221	0.0238	88.5	64.1-128	7.17	20	L725724-22	WG746787
Trichloroethene	mg/l	0.0312	0.0328	98.3	44.1-149	4.89	20	L725724-22	WG746787
Trichlorofluoromethane	mg/l	0.0248	0.0261	99.4	49.6-145	5.03	21.2	L725724-22	WG746787
Vinyl chloride	mg/l	0.0238	0.0250	95.0	47.8-137	5.20	20	L725724-22	WG746787
Xylenes, Total	mg/l	0.0792	0.0833	106.	63.3-131	4.98	20	L725724-22	WG746787
4-Bromofluorobenzene				101.0	71-126				WG746787
Dibromofluoromethane				101.0	78.3-121				WG746787
Toluene-d8				108.0	88.5-111				WG746787
1,1,1,2-Tetrachloroethane	mg/kg	0.109	0.106	87.1	64-128	3.03	20	L725743-01	WG747495
1,1,1-Trichloroethane	mg/kg	0.118	0.117	94.7	58.7-134	1.28	20	L725743-01	WG747495
1,1,2,2-Tetrachloroethane	mg/kg	0.103	0.101	82.6	56-132	2.27	22.2	L725743-01	WG747495
1,1,2-Trichloroethane	mg/kg	0.101	0.0969	81.0	66.3-125	4.40	20	L725743-01	WG747495
1,1,2-Trichlorotrifluoroethane	mg/kg	0.105	0.104	84.2	54.8-154	1.55	22.5	L725743-01	WG747495
1,1-Dichloroethane	mg/kg	0.103	0.103	82.4	58.5-132	0.120	20	L725743-01	WG747495
1,1-Dichloroethene	mg/kg	0.102	0.104	81.5	51.1-140	2.49	20.2	L725743-01	WG747495
1,1-Dichloropropene	mg/kg	0.102	0.105	81.4	57.3-136	2.90	20	L725743-01	WG747495
1,2,3-Trichlorobenzene	mg/kg	0.103	0.112	82.6	59.1-138	7.71	23.7	L725743-01	WG747495
1,2,3-Trichloropropane	mg/kg	0.114	0.105	91.3	61.4-128	8.29	22.4	L725743-01	WG747495
1,2,3-Trimethylbenzene	mg/kg	0.100	0.0970	80.3	61.3-122	3.42	20	L725743-01	WG747495
1,2,4-Trichlorobenzene	mg/kg	0.0903	0.0984	72.2	63.6-143	8.64	21.9	L725743-01	WG747495
1,2,4-Trimethylbenzene	mg/kg	0.0937	0.0939	74.9	57.4-137	0.270	20	L725743-01	WG747495
1,2-Dibromo-3-Chloropropane	mg/kg	0.119	0.111	95.3	57.3-136	7.27	27	L725743-01	WG747495
1,2-Dibromoethane	mg/kg	0.104	0.0980	83.2	67.1-125	5.98	20	L725743-01	WG747495
1,2-Dichlorobenzene	mg/kg	0.0980	0.0950	78.4	68.2-123	3.11	20	L725743-01	WG747495
1,2-Dichloroethane	mg/kg	0.104	0.102	83.4	60-126	2.18	20	L725743-01	WG747495

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Quality Assurance Report
Level II

L725740

October 10, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2-Dichloropropane	mg/kg	0.107	0.101	85.4	64.2-123	5.47	20	L725743-01	WG747495
1,3,5-Trimethylbenzene	mg/kg	0.0981	0.0963	78.5	63.6-132	1.84	20.5	L725743-01	WG747495
1,3-Dichlorobenzene	mg/kg	0.0901	0.0887	72.1	63.1-131	1.61	20	L725743-01	WG747495
1,3-Dichloropropane	mg/kg	0.100	0.0980	80.1	67.9-121	2.12	20	L725743-01	WG747495
1,4-Dichlorobenzene	mg/kg	0.0890	0.0901	70.9	68.6-123	1.25	20	L725743-01	WG747495
2,2-Dichloropropane	mg/kg	0.120	0.124	95.9	50.5-144	3.68	21.9	L725743-01	WG747495
2-Butanone (MEK)	mg/kg	0.597	0.562	95.5	22.4-138	6.08	27	L725743-01	WG747495
2-Chloroethyl vinyl ether	mg/kg	0.524	0.486	83.9	10-155	7.65	40	L725743-01	WG747495
2-Chlorotoluene	mg/kg	0.0986	0.0962	78.8	63.6-128	2.43	20	L725743-01	WG747495
4-Chlorotoluene	mg/kg	0.0933	0.0919	74.6	65.7-127	1.46	20	L725743-01	WG747495
4-Methyl-2-pentanone (MIBK)	mg/kg	0.619	0.581	99.0	60.8-140	6.23	25.1	L725743-01	WG747495
Acetone	mg/kg	0.579	0.550	90.6	10-130	5.26	27.9	L725743-01	WG747495
Acrylonitrile	mg/kg	0.637	0.610	102.	49.4-133	4.37	25.3	L725743-01	WG747495
Benzene	mg/kg	0.0998	0.100	79.8	54.3-133	0.290	20	L725743-01	WG747495
Bromobenzene	mg/kg	0.0934	0.0910	74.8	63.9-124	2.67	20	L725743-01	WG747495
Bromodichloromethane	mg/kg	0.110	0.104	88.2	63.9-121	5.99	20	L725743-01	WG747495
Bromoform	mg/kg	0.128	0.118	102.	59.5-134	8.36	20.8	L725743-01	WG747495
Bromomethane	mg/kg	0.117	0.117	93.3	41.7-155	0.460	20.5	L725743-01	WG747495
Carbon tetrachloride	mg/kg	0.122	0.127	97.7	55.7-134	4.15	20.3	L725743-01	WG747495
Chlorobenzene	mg/kg	0.0962	0.0953	76.9	67-125	0.940	20	L725743-01	WG747495
Chlorodibromomethane	mg/kg	0.110	0.103	87.9	64.3-125	6.09	20	L725743-01	WG747495
Chloroethane	mg/kg	0.122	0.126	97.5	51.5-136	3.73	20.8	L725743-01	WG747495
Chloroform	mg/kg	0.105	0.107	83.8	63-129	2.08	20	L725743-01	WG747495
Chloromethane	mg/kg	0.104	0.107	83.4	42.4-135	2.79	20	L725743-01	WG747495
cis-1,2-Dichloroethene	mg/kg	0.103	0.103	82.4	59.2-129	0.420	20	L725743-01	WG747495
cis-1,3-Dichloropropene	mg/kg	0.105	0.104	83.9	66.4-125	0.660	20	L725743-01	WG747495
Di-isopropyl ether	mg/kg	0.104	0.101	83.1	56.9-136	3.11	20	L725743-01	WG747495
Dibromomethane	mg/kg	0.111	0.102	89.1	68.2-124	8.65	20	L725743-01	WG747495
Dichlorodifluoromethane	mg/kg	0.107	0.105	86.0	40.6-144	2.13	20.2	L725743-01	WG747495
Ethylbenzene	mg/kg	0.0978	0.102	78.2	61.4-133	4.31	20	L725743-01	WG747495
Hexachloro-1,3-butadiene	mg/kg	0.0989	0.105	79.1	55.1-136	6.05	23.6	L725743-01	WG747495
Isopropylbenzene	mg/kg	0.103	0.101	82.7	66.8-141	1.98	20	L725743-01	WG747495
Methyl tert-butyl ether	mg/kg	0.102	0.0991	81.9	57.7-134	3.26	20	L725743-01	WG747495
Methylene Chloride	mg/kg	0.0923	0.0951	73.1	58.1-122	3.02	20	L725743-01	WG747495
n-Butylbenzene	mg/kg	0.103	0.102	82.0	62.7-140	0.140	20	L725743-01	WG747495
n-Propylbenzene	mg/kg	0.0983	0.0982	78.6	10-176	0.0600	26.6	L725743-01	WG747495
Naphthalene	mg/kg	0.111	0.109	88.7	58-135	1.35	25.5	L725743-01	WG747495
p-Isopropyltoluene	mg/kg	0.100	0.0980	80.3	63.2-139	2.47	20.4	L725743-01	WG747495
sec-Butylbenzene	mg/kg	0.103	0.100	82.1	62.2-136	2.24	20.3	L725743-01	WG747495
Styrene	mg/kg	0.101	0.0964	80.9	66.8-133	4.77	20	L725743-01	WG747495
tert-Butylbenzene	mg/kg	0.103	0.101	82.1	63.3-134	2.02	20.3	L725743-01	WG747495
Tetrachloroethene	mg/kg	0.103	0.103	82.6	53-139	0.520	20	L725743-01	WG747495
Toluene	mg/kg	0.104	0.100	83.3	61.4-130	3.60	20	L725743-01	WG747495
trans-1,2-Dichloroethene	mg/kg	0.103	0.105	82.1	56.5-129	2.23	20	L725743-01	WG747495
trans-1,3-Dichloropropene	mg/kg	0.106	0.102	83.1	64.1-128	4.26	20	L725743-01	WG747495
Trichloroethene	mg/kg	0.110	0.110	88.2	44.1-149	0.580	20	L725743-01	WG747495
Trichlorofluoromethane	mg/kg	0.128	0.132	102.	49.6-145	2.78	21.2	L725743-01	WG747495
Vinyl chloride	mg/kg	0.116	0.117	92.9	47.8-137	1.05	20	L725743-01	WG747495
Xylenes, Total	mg/kg	0.290	0.283	77.3	63.3-131	2.54	20	L725743-01	WG747495
4-Bromofluorobenzene				96.30	71-126				WG747495
Dibromofluoromethane				100.0	78.3-121				WG747495
Toluene-d8				105.0	88.5-111				WG747495
1,2,4-Trimethylbenzene	mg/kg	0.127	0.124	102.	57.4-137	2.87	20	L726738-01	WG747897
1,3,5-Trimethylbenzene	mg/kg	0.133	0.129	106.	63.6-132	2.69	20.5	L726738-01	WG747897
4-Bromofluorobenzene				99.90	71-126				WG747897
Dibromofluoromethane				107.0	78.3-121				WG747897
Toluene-d8				101.0	88.5-111				WG747897

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Batch number /Run number / Sample number cross reference

WG746787: R2995715: L725740-05
WG747185: R2995880: L725740-01 02 03 04
WG747495: R2996568: L725740-01 02 03 04
WG747897: R2996686: L725740-02

* * Calculations are performed prior to rounding of reported values.
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L725740

October 10, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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: **Matt Dahl**

Email To: **mdahl@pesenv.com; krankich@pesenv.com**

Project Description: **MVSC in Normandy Park, WA**

City/State Collected: NORMANDY PARK WA

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

Client Project # **1358.001.01.005**

Lab Project # **PESENVSWA-135800101**

Collected by (print): Chris DeBoer

Site/Facility ID # **NORMADY PARK, WA**

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X__Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-18-8	Grab	SS	8	10-2-14	0940	4	X	X		-01	
AS-19-8	Grab	SS	8	10-2-14	1500	4	X	X		-02	
AS-17-8	Grab	SS	8	10-3-14	1130	4	X	X		-03	
AS-17-30	Grab	SS	30	10-3-14	1220	4	X	X		-04	
		SS				4	X	X			
TRIP BLANK		GW				1			X	-05	

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks:

$2748 7% 04 60

pH _____ Temp _____

Flow _____ Other _____

Chain of Custody Page ___ of ___

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Fax: 615-758-5859

L# L725740

E046

Acctnum: **PESENVSWA**
Template: **T97039**
Prelogin: **P483489**
TSR: **358 - Jarred Willis**
PB:

Shipped Via: **FedEX Ground**

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10-3-14	1600	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.9 °C Bottles Received: 17

Date: 10/4/14 Time: 0900

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Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Thursday October 16, 2014

Report Number: L726616
Samples Received: 10/09/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-20-10

Collected By : Chris DeBoer
Collection Date : 10/06/14 09:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.2		%	2540 G-2011	10/14/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/16/14	1.01
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/12/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/12/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/12/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/12/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/12/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/16/14	1.01
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/12/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-20-10

Collected By : Chris DeBoer
Collection Date : 10/06/14 09:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/16/14	1.01
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/12/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/16/14	1.01
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/12/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/12/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Tetrachloroethene	0.0033	0.0010	mg/kg	8260C	10/12/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/12/14	1
1,2,4-Trimethylbenzene	0.0029	0.0010	mg/kg	8260C	10/12/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/12/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260C	10/12/14	1
Dibromofluoromethane	124.		% Rec.	8260C	10/12/14	1
4-Bromofluorobenzene	102.		% Rec.	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-15-8

Collected By : Chris DeBoer
Collection Date : 10/06/14 14:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	83.8		%	2540 G-2011	10/14/14	1
Volatile Organics						
Acetone	0.11	0.060	mg/kg	8260C	10/16/14	1
Acrylonitrile	BDL	0.012	mg/kg	8260C	10/12/14	1
Benzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Bromobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Bromodichloromethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Bromoform	BDL	0.0012	mg/kg	8260C	10/12/14	1
Bromomethane	BDL	0.0060	mg/kg	8260C	10/12/14	1
n-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
sec-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
tert-Butylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Carbon tetrachloride	BDL	0.0012	mg/kg	8260C	10/12/14	1
Chlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Chlorodibromomethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Chloroethane	BDL	0.0060	mg/kg	8260C	10/12/14	1
2-Chloroethyl vinyl ether	BDL	0.060	mg/kg	8260C	10/12/14	1
Chloroform	BDL	0.0060	mg/kg	8260C	10/12/14	1
Chloromethane	BDL	0.0030	mg/kg	8260C	10/12/14	1
2-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/12/14	1
4-Chlorotoluene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0060	mg/kg	8260C	10/12/14	1
1,2-Dibromoethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Dibromomethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,3-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,4-Dichlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Dichlorodifluoromethane	BDL	0.0060	mg/kg	8260C	10/12/14	1
1,1-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2-Dichloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/12/14	1
cis-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/12/14	1
trans-1,2-Dichloroethene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,3-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/12/14	1
cis-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/12/14	1
trans-1,3-Dichloropropene	BDL	0.0012	mg/kg	8260C	10/16/14	1
2,2-Dichloropropane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Di-isopropyl ether	BDL	0.0012	mg/kg	8260C	10/12/14	1
Ethylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Hexachloro-1,3-butadiene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Isopropylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-15-8

Collected By : Chris DeBoer
Collection Date : 10/06/14 14:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0012	mg/kg	8260C	10/12/14	1
2-Butanone (MEK)	BDL	0.012	mg/kg	8260C	10/16/14	1
Methylene Chloride	BDL	0.0060	mg/kg	8260C	10/12/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.012	mg/kg	8260C	10/16/14	1
Methyl tert-butyl ether	BDL	0.0012	mg/kg	8260C	10/12/14	1
Naphthalene	BDL	0.0060	mg/kg	8260C	10/12/14	1
n-Propylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Styrene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Tetrachloroethene	0.0031	0.0012	mg/kg	8260C	10/12/14	1
Toluene	BDL	0.0060	mg/kg	8260C	10/12/14	1
1,2,3-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2,4-Trichlorobenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1,1-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,1,2-Trichloroethane	BDL	0.0012	mg/kg	8260C	10/12/14	1
Trichloroethene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Trichlorofluoromethane	BDL	0.0060	mg/kg	8260C	10/12/14	1
1,2,3-Trichloropropane	BDL	0.0030	mg/kg	8260C	10/12/14	1
1,2,4-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,2,3-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Vinyl chloride	BDL	0.0012	mg/kg	8260C	10/12/14	1
1,3,5-Trimethylbenzene	BDL	0.0012	mg/kg	8260C	10/12/14	1
Xylenes, Total	BDL	0.0036	mg/kg	8260C	10/12/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260C	10/12/14	1
Dibromofluoromethane	116.		% Rec.	8260C	10/12/14	1
4-Bromofluorobenzene	95.3		% Rec.	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-16-15

Collected By : Chris DeBoer
Collection Date : 10/07/14 09:20

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.2		%	2540 G-2011	10/14/14	1
Volatile Organics						
Acetone	BDL	0.056	mg/kg	8260C	10/16/14	1.03
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/12/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/12/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/12/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/12/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/12/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/12/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/12/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/12/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/16/14	1.03
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-16-15

Collected By : Chris DeBoer
Collection Date : 10/07/14 09:20

ESC Sample # : L726616-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/16/14	1.03
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/12/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/16/14	1.03
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/12/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Tetrachloroethene	0.0032	0.0011	mg/kg	8260C	10/12/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/12/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/12/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/12/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/12/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260C	10/12/14	1
Dibromofluoromethane	121.		% Rec.	8260C	10/12/14	1
4-Bromofluorobenzene	99.8		% Rec.	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-21-8

Collected By : Chris DeBoer
Collection Date : 10/07/14 14:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.9		%	2540 G-2011	10/14/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/16/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/12/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/12/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/12/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/12/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/12/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/12/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/16/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/12/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-21-8

Collected By : Chris DeBoer
Collection Date : 10/07/14 14:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/12/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/16/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/12/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/16/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/12/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/12/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Tetrachloroethene	0.0038	0.0010	mg/kg	8260C	10/12/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/12/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/12/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/12/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/12/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/12/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/12/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260C	10/12/14	1
Dibromofluoromethane	122.		% Rec.	8260C	10/12/14	1
4-Bromofluorobenzene	97.3		% Rec.	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-14-8

Collected By : Chris DeBoer
Collection Date : 10/08/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.9		%	2540 G-2011	10/14/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/16/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/12/14	1.01
Benzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Bromoform	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Bromomethane	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Chloroethane	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260C	10/12/14	1.01
Chloroform	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
Chloromethane	BDL	0.0027	mg/kg	8260C	10/12/14	1.01
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/16/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-14-8

Collected By : Chris DeBoer
Collection Date : 10/08/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/16/14	1
Methylene Chloride	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/16/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Naphthalene	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Styrene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Tetrachloroethene	0.0021	0.0011	mg/kg	8260C	10/12/14	1.01
Toluene	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260C	10/12/14	1.01
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/12/14	1.01
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1.01
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/12/14	1.01
Surrogate Recovery						
Toluene-d8	106.		% Rec.	8260C	10/12/14	1.01
Dibromofluoromethane	126.		% Rec.	8260C	10/12/14	1.01
4-Bromofluorobenzene	97.7		% Rec.	8260C	10/12/14	1.01

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 10/06/14 00:00

ESC Sample # : L726616-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260C	10/15/14	1
Acrolein	BDL	50.	ug/l	8260C	10/10/14	1
Acrylonitrile	BDL	10.	ug/l	8260C	10/10/14	1
Benzene	BDL	1.0	ug/l	8260C	10/10/14	1
Bromobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260C	10/10/14	1
Bromoform	BDL	1.0	ug/l	8260C	10/10/14	1
Bromomethane	BDL	5.0	ug/l	8260C	10/10/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260C	10/10/14	1
Chlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260C	10/10/14	1
Chloroethane	BDL	5.0	ug/l	8260C	10/10/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260C	10/10/14	1
Chloroform	BDL	5.0	ug/l	8260C	10/10/14	1
Chloromethane	BDL	2.5	ug/l	8260C	10/10/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260C	10/10/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260C	10/10/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260C	10/10/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260C	10/10/14	1
Dibromomethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260C	10/10/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260C	10/10/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/10/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/10/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/10/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260C	10/10/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260C	10/10/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/10/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/15/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/10/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260C	10/10/14	1
Ethylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260C	10/10/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260C	10/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoer
Collection Date : 10/06/14 00:00

ESC Sample # : L726616-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260C	10/15/14	1
Methylene Chloride	BDL	5.0	ug/l	8260C	10/10/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260C	10/15/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260C	10/10/14	1
Naphthalene	BDL	5.0	ug/l	8260C	10/10/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Styrene	BDL	1.0	ug/l	8260C	10/10/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260C	10/10/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260C	10/10/14	1
Toluene	BDL	5.0	ug/l	8260C	10/10/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260C	10/10/14	1
Trichloroethene	BDL	1.0	ug/l	8260C	10/10/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260C	10/10/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260C	10/10/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/10/14	1
Vinyl chloride	BDL	1.0	ug/l	8260C	10/10/14	1
Xylenes, Total	BDL	3.0	ug/l	8260C	10/10/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260C	10/10/14	1
Dibromofluoromethane	110.		% Rec.	8260C	10/10/14	1
4-Bromofluorobenzene	101.		% Rec.	8260C	10/10/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-10

Collected By : Chris DeBoer
Collection Date : 10/08/14 14:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	89.9		%	2540 G-2011	10/13/14	1
Volatile Organics						
Acetone	0.073	0.066	mg/kg	8260C	10/16/14	1.19
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/12/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/12/14	1
Bromomethane	BDL	0.0056	mg/kg	8260C	10/12/14	1
n-Butylbenzene	0.0097	0.0011	mg/kg	8260C	10/12/14	1
sec-Butylbenzene	0.0059	0.0011	mg/kg	8260C	10/12/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Chloroethane	BDL	0.0056	mg/kg	8260C	10/12/14	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260C	10/12/14	1
Chloroform	BDL	0.0056	mg/kg	8260C	10/12/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/12/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260C	10/12/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260C	10/12/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/12/14	1
trans-1,3-Dichloropropene	BDL	0.0013	mg/kg	8260C	10/16/14	1.19
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1
Ethylbenzene	0.0072	0.0011	mg/kg	8260C	10/12/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Isopropylbenzene	0.0041	0.0011	mg/kg	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 16,2014

ESC Sample # : L726616-07

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 09, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-22-10

Collected By : Chris DeBoer
Collection Date : 10/08/14 14:30

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.0036	0.0011	mg/kg	8260C	10/12/14	1
2-Butanone (MEK)	BDL	0.013	mg/kg	8260C	10/16/14	1.19
Methylene Chloride	BDL	0.0056	mg/kg	8260C	10/12/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.013	mg/kg	8260C	10/16/14	1.19
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/12/14	1
Naphthalene	0.022	0.0056	mg/kg	8260C	10/12/14	1
n-Propylbenzene	0.019	0.0011	mg/kg	8260C	10/12/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Tetrachloroethene	0.0027	0.0011	mg/kg	8260C	10/12/14	1
Toluene	BDL	0.0056	mg/kg	8260C	10/12/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/12/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/12/14	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260C	10/12/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/12/14	1
1,2,4-Trimethylbenzene	0.18	0.0011	mg/kg	8260C	10/12/14	1
1,2,3-Trimethylbenzene	0.052	0.0011	mg/kg	8260C	10/12/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/12/14	1
1,3,5-Trimethylbenzene	0.047	0.0011	mg/kg	8260C	10/12/14	1
Xylenes, Total	0.076	0.0033	mg/kg	8260C	10/12/14	1
Surrogate Recovery						
Toluene-d8	105.		% Rec.	8260C	10/12/14	1
Dibromofluoromethane	121.		% Rec.	8260C	10/12/14	1
4-Bromofluorobenzene	114.		% Rec.	8260C	10/12/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L726616-01	WG747806	SAMP	Styrene	R2997187	J4
	WG747806	SAMP	Dibromofluoromethane	R2997187	J1
L726616-02	WG747806	SAMP	Styrene	R2997187	J4
L726616-03	WG747806	SAMP	Styrene	R2997187	J4
L726616-04	WG747806	SAMP	Styrene	R2997187	J4
	WG747806	SAMP	Dibromofluoromethane	R2997187	J1
L726616-05	WG747806	SAMP	Styrene	R2997187	J4
	WG747806	SAMP	Dibromofluoromethane	R2997187	J1
L726616-06	WG747776	SAMP	2-Chloroethyl vinyl ether	R2997478	J3
	WG747776	SAMP	Styrene	R2997478	J4
	WG747776	SAMP	1,2,3-Trichloropropane	R2997478	J4
L726616-07	WG747806	SAMP	Styrene	R2997187	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J1	Surrogate recovery limits have been exceeded; values are outside upper control limits
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/16/14 at 11:39:28

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L726616-01 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-02 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-03 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-04 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-05 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-06 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14
Sample: L726616-07 Account: PESENVSWA Received: 10/09/14 09:00 Due Date: 10/16/14 00:00 RPT Date: 10/16/14 11:38
Changed V8260 to V8260C per JW. AV 10/14

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L726616

October 16, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG748003	10/13/14 12:04
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1,1-Trichloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1,2-Trichloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1-Dichloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,1-Dichloroethene	< .001	mg/kg			WG747806	10/11/14 23:51
1,1-Dichloropropene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2,3-Trichlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2,3-Trichloropropane	< .0025	mg/kg			WG747806	10/11/14 23:51
1,2,3-Trimethylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2,4-Trichlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2,4-Trimethylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG747806	10/11/14 23:51
1,2-Dibromoethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,2-Dichlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,2-Dichloroethane	< .001	mg/kg			WG747806	10/11/14 23:51
1,2-Dichloropropane	< .001	mg/kg			WG747806	10/11/14 23:51
1,3,5-Trimethylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,3-Dichlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
1,3-Dichloropropane	< .001	mg/kg			WG747806	10/11/14 23:51
1,4-Dichlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
2,2-Dichloropropane	< .001	mg/kg			WG747806	10/11/14 23:51
2-Chloroethyl vinyl ether	< .05	mg/kg			WG747806	10/11/14 23:51
2-Chlorotoluene	< .001	mg/kg			WG747806	10/11/14 23:51
4-Chlorotoluene	< .001	mg/kg			WG747806	10/11/14 23:51
Acrylonitrile	< .01	mg/kg			WG747806	10/11/14 23:51
Benzene	< .001	mg/kg			WG747806	10/11/14 23:51
Bromobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Bromodichloromethane	< .001	mg/kg			WG747806	10/11/14 23:51
Bromoform	< .001	mg/kg			WG747806	10/11/14 23:51
Bromomethane	< .005	mg/kg			WG747806	10/11/14 23:51
Carbon tetrachloride	< .001	mg/kg			WG747806	10/11/14 23:51
Chlorobenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Chlorodibromomethane	< .001	mg/kg			WG747806	10/11/14 23:51
Chloroethane	< .005	mg/kg			WG747806	10/11/14 23:51
Chloroform	< .005	mg/kg			WG747806	10/11/14 23:51
Chloromethane	< .0025	mg/kg			WG747806	10/11/14 23:51
cis-1,2-Dichloroethene	< .001	mg/kg			WG747806	10/11/14 23:51
cis-1,3-Dichloropropene	< .001	mg/kg			WG747806	10/11/14 23:51
Di-isopropyl ether	< .001	mg/kg			WG747806	10/11/14 23:51
Dibromomethane	< .001	mg/kg			WG747806	10/11/14 23:51
Dichlorodifluoromethane	< .005	mg/kg			WG747806	10/11/14 23:51
Ethylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Hexachloro-1,3-butadiene	< .001	mg/kg			WG747806	10/11/14 23:51
Isopropylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Methyl tert-butyl ether	< .001	mg/kg			WG747806	10/11/14 23:51
Methylene Chloride	< .005	mg/kg			WG747806	10/11/14 23:51
n-Butylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
n-Propylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Naphthalene	< .005	mg/kg			WG747806	10/11/14 23:51
p-Isopropyltoluene	< .001	mg/kg			WG747806	10/11/14 23:51
sec-Butylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Styrene	< .001	mg/kg			WG747806	10/11/14 23:51
tert-Butylbenzene	< .001	mg/kg			WG747806	10/11/14 23:51
Tetrachloroethene	< .001	mg/kg			WG747806	10/11/14 23:51

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Seattle, WA 98161

Quality Assurance Report
Level II

L726616

October 16, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Toluene	< .005	mg/kg			WG747806	10/11/14 23:51
trans-1,2-Dichloroethene	< .001	mg/kg			WG747806	10/11/14 23:51
Trichloroethene	< .001	mg/kg			WG747806	10/11/14 23:51
Trichlorofluoromethane	< .005	mg/kg			WG747806	10/11/14 23:51
Vinyl chloride	< .001	mg/kg			WG747806	10/11/14 23:51
Xylenes, Total	< .003	mg/kg			WG747806	10/11/14 23:51
4-Bromofluorobenzene		% Rec.	100.0	71-126	WG747806	10/11/14 23:51
Dibromofluoromethane		% Rec.	106.0	78.3-121	WG747806	10/11/14 23:51
Toluene-d8		% Rec.	103.0	88.5-111	WG747806	10/11/14 23:51
Total Solids	< .1	%			WG748002	10/14/14 06:33
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1,1-Trichloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1,2-Trichloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1-Dichloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,1-Dichloroethene	< .001	mg/l			WG747776	10/10/14 23:12
1,1-Dichloropropene	< .001	mg/l			WG747776	10/10/14 23:12
1,2,3-Trichlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,2,3-Trichloropropane	< .001	mg/l			WG747776	10/10/14 23:12
1,2,3-Trimethylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,2,4-Trichlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,2,4-Trimethylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG747776	10/10/14 23:12
1,2-Dibromoethane	< .001	mg/l			WG747776	10/10/14 23:12
1,2-Dichlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,2-Dichloroethane	< .001	mg/l			WG747776	10/10/14 23:12
1,2-Dichloropropane	< .001	mg/l			WG747776	10/10/14 23:12
1,3,5-Trimethylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,3-Dichlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
1,3-Dichloropropane	< .001	mg/l			WG747776	10/10/14 23:12
1,4-Dichlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
2,2-Dichloropropane	< .001	mg/l			WG747776	10/10/14 23:12
2-Chloroethyl vinyl ether	< .05	mg/l			WG747776	10/10/14 23:12
2-Chlorotoluene	< .001	mg/l			WG747776	10/10/14 23:12
4-Chlorotoluene	< .001	mg/l			WG747776	10/10/14 23:12
Acrolein	< .025	mg/l			WG747776	10/10/14 23:12
Acrylonitrile	< .01	mg/l			WG747776	10/10/14 23:12
Benzene	< .001	mg/l			WG747776	10/10/14 23:12
Bromobenzene	< .001	mg/l			WG747776	10/10/14 23:12
Bromodichloromethane	< .001	mg/l			WG747776	10/10/14 23:12
Bromoform	< .001	mg/l			WG747776	10/10/14 23:12
Bromomethane	< .005	mg/l			WG747776	10/10/14 23:12
Carbon tetrachloride	< .001	mg/l			WG747776	10/10/14 23:12
Chlorobenzene	< .001	mg/l			WG747776	10/10/14 23:12
Chlorodibromomethane	< .001	mg/l			WG747776	10/10/14 23:12
Chloroethane	< .005	mg/l			WG747776	10/10/14 23:12
Chloroform	< .005	mg/l			WG747776	10/10/14 23:12
Chloromethane	< .0025	mg/l			WG747776	10/10/14 23:12
cis-1,2-Dichloroethene	< .001	mg/l			WG747776	10/10/14 23:12
cis-1,3-Dichloropropene	< .001	mg/l			WG747776	10/10/14 23:12
Di-isopropyl ether	< .001	mg/l			WG747776	10/10/14 23:12
Dibromomethane	< .001	mg/l			WG747776	10/10/14 23:12
Dichlorodifluoromethane	< .005	mg/l			WG747776	10/10/14 23:12
Ethylbenzene	< .001	mg/l			WG747776	10/10/14 23:12

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Quality Assurance Report
Level II

L726616

October 16, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Hexachloro-1,3-butadiene	< .001	mg/l			WG747776	10/10/14 23:12
Isopropylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
Methyl tert-butyl ether	< .001	mg/l			WG747776	10/10/14 23:12
Methylene Chloride	< .005	mg/l			WG747776	10/10/14 23:12
n-Butylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
n-Propylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
Naphthalene	< .005	mg/l			WG747776	10/10/14 23:12
p-Isopropyltoluene	< .001	mg/l			WG747776	10/10/14 23:12
sec-Butylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
Styrene	< .001	mg/l			WG747776	10/10/14 23:12
tert-Butylbenzene	< .001	mg/l			WG747776	10/10/14 23:12
Tetrachloroethene	< .001	mg/l			WG747776	10/10/14 23:12
Toluene	< .005	mg/l			WG747776	10/10/14 23:12
trans-1,2-Dichloroethene	< .001	mg/l			WG747776	10/10/14 23:12
Trichloroethene	< .001	mg/l			WG747776	10/10/14 23:12
Trichlorofluoromethane	< .005	mg/l			WG747776	10/10/14 23:12
Vinyl chloride	< .001	mg/l			WG747776	10/10/14 23:12
Xylenes, Total	< .003	mg/l			WG747776	10/10/14 23:12
4-Bromofluorobenzene		% Rec.	101.0	71-126	WG747776	10/10/14 23:12
Dibromofluoromethane		% Rec.	106.0	78.3-121	WG747776	10/10/14 23:12
Toluene-d8		% Rec.	104.0	88.5-111	WG747776	10/10/14 23:12
2-Butanone (MEK)	< .01	mg/l			WG748852	10/15/14 23:15
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG748852	10/15/14 23:15
Acetone	< .05	mg/l			WG748852	10/15/14 23:15
trans-1,3-Dichloropropene	< .001	mg/l			WG748852	10/15/14 23:15
4-Bromofluorobenzene		% Rec.	97.20	71-126	WG748852	10/15/14 23:15
Dibromofluoromethane		% Rec.	95.30	78.3-121	WG748852	10/15/14 23:15
Toluene-d8		% Rec.	101.0	88.5-111	WG748852	10/15/14 23:15
2-Butanone (MEK)	< .01	mg/kg			WG748875	10/15/14 23:10
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG748875	10/15/14 23:10
Acetone	< .05	mg/kg			WG748875	10/15/14 23:10
trans-1,3-Dichloropropene	< .001	mg/kg			WG748875	10/15/14 23:10
4-Bromofluorobenzene		% Rec.	91.70	71-126	WG748875	10/15/14 23:10
Dibromofluoromethane		% Rec.	97.50	78.3-121	WG748875	10/15/14 23:10
Toluene-d8		% Rec.	96.60	88.5-111	WG748875	10/15/14 23:10

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	86.1	86.5	0.433	5	L726623-07	WG748003
Total Solids	%	95.2	93.9	1.29	5	L726616-05	WG748002

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG748003
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0236	94.3	72.9-124	WG747806
1,1,1-Trichloroethane	mg/kg	.025	0.0274	110.	73.7-124	WG747806
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0272	109.	69.4-122	WG747806
1,1,2-Trichloroethane	mg/kg	.025	0.0269	108.	79.1-118	WG747806
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0256	102.	70-146	WG747806

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
1,1-Dichloroethane	mg/kg	.025	0.0242	96.6	75-124	WG747806
1,1-Dichloroethene	mg/kg	.025	0.0241	96.4	70.4-129	WG747806
1,1-Dichloropropene	mg/kg	.025	0.0253	101.	74.9-124	WG747806
1,2,3-Trichlorobenzene	mg/kg	.025	0.0257	103.	69.3-131	WG747806
1,2,3-Trichloropropane	mg/kg	.025	0.0288	115.	71.4-123	WG747806
1,2,3-Trimethylbenzene	mg/kg	.025	0.0243	97.1	73.6-113	WG747806
1,2,4-Trichlorobenzene	mg/kg	.025	0.0240	95.9	71.9-137	WG747806
1,2,4-Trimethylbenzene	mg/kg	.025	0.0240	96.1	75.5-122	WG747806
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0229	91.8	62.8-133	WG747806
1,2-Dibromoethane	mg/kg	.025	0.0272	109.	78.6-120	WG747806
1,2-Dichlorobenzene	mg/kg	.025	0.0250	100.	78.3-118	WG747806
1,2-Dichloroethane	mg/kg	.025	0.0280	112.	70.1-124	WG747806
1,2-Dichloropropane	mg/kg	.025	0.0237	94.6	77.9-119	WG747806
1,3,5-Trimethylbenzene	mg/kg	.025	0.0247	98.9	75.9-124	WG747806
1,3-Dichlorobenzene	mg/kg	.025	0.0254	102.	72-126	WG747806
1,3-Dichloropropane	mg/kg	.025	0.0260	104.	79.1-117	WG747806
1,4-Dichlorobenzene	mg/kg	.025	0.0241	96.5	78.3-117	WG747806
2,2-Dichloropropane	mg/kg	.025	0.0248	99.0	61.3-136	WG747806
2-Chloroethyl vinyl ether	mg/kg	.125	0.122	97.4	37.7-157	WG747806
2-Chlorotoluene	mg/kg	.025	0.0245	98.1	75.6-121	WG747806
4-Chlorotoluene	mg/kg	.025	0.0250	100.	77.3-120	WG747806
Acrylonitrile	mg/kg	.125	0.141	113.	56.4-128	WG747806
Benzene	mg/kg	.025	0.0250	100.	77.1-121	WG747806
Bromobenzene	mg/kg	.025	0.0247	98.8	78.2-115	WG747806
Bromodichloromethane	mg/kg	.025	0.0257	103.	74.9-115	WG747806
Bromoform	mg/kg	.025	0.0251	100.	65.9-132	WG747806
Bromomethane	mg/kg	.025	0.0243	97.2	48.7-165	WG747806
Carbon tetrachloride	mg/kg	.025	0.0258	103.	70-124	WG747806
Chlorobenzene	mg/kg	.025	0.0252	101.	79.1-119	WG747806
Chlorodibromomethane	mg/kg	.025	0.0266	106.	73.5-121	WG747806
Chloroethane	mg/kg	.025	0.0223	89.2	66.2-132	WG747806
Chloroform	mg/kg	.025	0.0261	104.	76.7-122	WG747806
Chloromethane	mg/kg	.025	0.0201	80.4	63.4-131	WG747806
cis-1,2-Dichloroethene	mg/kg	.025	0.0269	107.	78.2-119	WG747806
cis-1,3-Dichloropropene	mg/kg	.025	0.0239	95.7	79.6-120	WG747806
Di-isopropyl ether	mg/kg	.025	0.0255	102.	70.4-133	WG747806
Dibromomethane	mg/kg	.025	0.0263	105.	79.4-120	WG747806
Dichlorodifluoromethane	mg/kg	.025	0.0241	96.4	57.1-137	WG747806
Ethylbenzene	mg/kg	.025	0.0249	99.7	79.7-122	WG747806
Hexachloro-1,3-butadiene	mg/kg	.025	0.0220	87.9	68.2-123	WG747806
Isopropylbenzene	mg/kg	.025	0.0245	97.9	80-135	WG747806
Methyl tert-butyl ether	mg/kg	.025	0.0241	96.2	73-129	WG747806
Methylene Chloride	mg/kg	.025	0.0258	103.	72.6-120	WG747806
n-Butylbenzene	mg/kg	.025	0.0237	94.7	77.5-126	WG747806
n-Propylbenzene	mg/kg	.025	0.0245	98.1	77.9-123	WG747806
Naphthalene	mg/kg	.025	0.0267	107.	69.8-128	WG747806
p-Isopropyltoluene	mg/kg	.025	0.0239	95.6	75.8-129	WG747806
sec-Butylbenzene	mg/kg	.025	0.0246	98.5	75.8-126	WG747806
Styrene	mg/kg	.025	0.0213	85.2	82.4-126	WG747806
tert-Butylbenzene	mg/kg	.025	0.0241	96.5	76.4-126	WG747806
Tetrachloroethene	mg/kg	.025	0.0246	98.4	73.9-125	WG747806
Toluene	mg/kg	.025	0.0244	97.8	79.7-118	WG747806
trans-1,2-Dichloroethene	mg/kg	.025	0.0254	101.	73.8-122	WG747806
Trichloroethene	mg/kg	.025	0.0246	98.4	77.9-118	WG747806
Trichlorofluoromethane	mg/kg	.025	0.0265	106.	67.7-131	WG747806
Vinyl chloride	mg/kg	.025	0.0222	88.8	66.7-130	WG747806
Xylenes, Total	mg/kg	.075	0.0708	94.4	78.8-121	WG747806
4-Bromofluorobenzene				98.10	71-126	WG747806
Dibromofluoromethane				108.0	78.3-121	WG747806

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Quality Assurance Report
Level II

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October 16, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
Toluene-d8				103.0	88.5-111	
Total Solids	%	50	50.0	99.9	85-115	WG748002
1,1,1,2-Tetrachloroethane	mg/l	.025	0.0238	95.3	74.2-124	WG747776
1,1,1-Trichloroethane	mg/l	.025	0.0255	102.	73.2-123	WG747776
1,1,2,2-Tetrachloroethane	mg/l	.025	0.0286	115.	70.7-122	WG747776
1,1,2-Trichloroethane	mg/l	.025	0.0281	112.	77.7-118	WG747776
1,1,2-Trichlorotrifluoroethane	mg/l	.025	0.0239	95.5	67.2-143	WG747776
1,1-Dichloroethane	mg/l	.025	0.0222	88.7	70.7-126	WG747776
1,1-Dichloroethene	mg/l	.025	0.0212	84.9	67.8-129	WG747776
1,1-Dichloropropene	mg/l	.025	0.0229	91.6	73.1-125	WG747776
1,2,3-Trichlorobenzene	mg/l	.025	0.0257	103.	64.9-135	WG747776
1,2,3-Trichloropropane	mg/l	.025	0.0312	125.*	71.8-121	WG747776
1,2,3-Trimethylbenzene	mg/l	.025	0.0237	94.9	72.3-116	WG747776
1,2,4-Trichlorobenzene	mg/l	.025	0.0239	95.5	69.7-136	WG747776
1,2,4-Trimethylbenzene	mg/l	.025	0.0251	100.	75-123	WG747776
1,2-Dibromo-3-Chloropropane	mg/l	.025	0.0254	101.	65.4-128	WG747776
1,2-Dibromoethane	mg/l	.025	0.0278	111.	76.6-121	WG747776
1,2-Dichlorobenzene	mg/l	.025	0.0246	98.4	78.4-117	WG747776
1,2-Dichloroethane	mg/l	.025	0.0274	109.	68.8-124	WG747776
1,2-Dichloropropane	mg/l	.025	0.0229	91.6	76.5-119	WG747776
1,3,5-Trimethylbenzene	mg/l	.025	0.0245	97.8	75.6-124	WG747776
1,3-Dichlorobenzene	mg/l	.025	0.0255	102.	70.8-128	WG747776
1,3-Dichloropropane	mg/l	.025	0.0259	104.	77.4-117	WG747776
1,4-Dichlorobenzene	mg/l	.025	0.0236	94.5	78.8-115	WG747776
2,2-Dichloropropane	mg/l	.025	0.0232	92.9	62.4-133	WG747776
2-Chloroethyl vinyl ether	mg/l	.125	0.127	102.	43.8-150	WG747776
2-Chlorotoluene	mg/l	.025	0.0238	95.3	74.7-122	WG747776
4-Chlorotoluene	mg/l	.025	0.0250	99.9	77.5-120	WG747776
Acrolein	mg/l	.125	0.146	117.	10-190	WG747776
Acrylonitrile	mg/l	.125	0.141	113.	55.2-130	WG747776
Benzene	mg/l	.025	0.0232	93.0	74.8-121	WG747776
Bromobenzene	mg/l	.025	0.0247	98.7	77.5-116	WG747776
Bromodichloromethane	mg/l	.025	0.0251	100.	75.1-116	WG747776
Bromoform	mg/l	.025	0.0277	111.	67.5-130	WG747776
Bromomethane	mg/l	.025	0.0207	82.8	49.9-162	WG747776
Carbon tetrachloride	mg/l	.025	0.0238	95.4	70.2-123	WG747776
Chlorobenzene	mg/l	.025	0.0246	98.5	78.1-119	WG747776
Chlorodibromomethane	mg/l	.025	0.0279	112.	74-121	WG747776
Chloroethane	mg/l	.025	0.0200	79.8	61.7-135	WG747776
Chloroform	mg/l	.025	0.0252	101.	76-121	WG747776
Chloromethane	mg/l	.025	0.0175	70.0	61.5-129	WG747776
cis-1,2-Dichloroethene	mg/l	.025	0.0245	98.1	76-119	WG747776
cis-1,3-Dichloropropene	mg/l	.025	0.0236	94.4	78.2-120	WG747776
Di-isopropyl ether	mg/l	.025	0.0251	101.	65.6-132	WG747776
Dibromomethane	mg/l	.025	0.0268	107.	79.5-118	WG747776
Dichlorodifluoromethane	mg/l	.025	0.0214	85.6	54.8-135	WG747776
Ethylbenzene	mg/l	.025	0.0243	97.3	78.8-122	WG747776
Hexachloro-1,3-butadiene	mg/l	.025	0.0207	82.6	64.7-129	WG747776
Isopropylbenzene	mg/l	.025	0.0243	97.2	78.6-132	WG747776
Methyl tert-butyl ether	mg/l	.025	0.0244	97.6	71.2-126	WG747776
Methylene Chloride	mg/l	.025	0.0230	92.1	70.3-120	WG747776
n-Butylbenzene	mg/l	.025	0.0224	89.5	76.2-126	WG747776
n-Propylbenzene	mg/l	.025	0.0245	98.1	78.2-122	WG747776
Naphthalene	mg/l	.025	0.0299	120.	68.4-128	WG747776
p-Isopropyltoluene	mg/l	.025	0.0239	95.4	74-131	WG747776
sec-Butylbenzene	mg/l	.025	0.0244	97.4	74.4-127	WG747776
Styrene	mg/l	.025	0.0209	83.6	80.4-126	WG747776

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L726616

October 16, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
tert-Butylbenzene	mg/l	.025	0.0240	96.0	75.3-126	WG747776
Tetrachloroethene	mg/l	.025	0.0227	90.8	72.6-126	WG747776
Toluene	mg/l	.025	0.0233	93.3	79.7-116	WG747776
trans-1,2-Dichloroethene	mg/l	.025	0.0225	90.0	72.6-121	WG747776
Trichloroethene	mg/l	.025	0.0237	94.8	77.7-118	WG747776
Trichlorofluoromethane	mg/l	.025	0.0241	96.3	63.5-135	WG747776
Vinyl chloride	mg/l	.025	0.0190	76.1	65.9-128	WG747776
Xylenes, Total	mg/l	.075	0.0695	92.6	78.7-121	WG747776
4-Bromofluorobenzene				102.0	71-126	WG747776
Dibromofluoromethane				110.0	78.3-121	WG747776
Toluene-d8				103.0	88.5-111	WG747776
2-Butanone (MEK)	mg/l	.125	0.0923	73.8	55-149	WG748852
4-Methyl-2-pentanone (MIBK)	mg/l	.125	0.0985	78.8	70.5-133	WG748852
Acetone	mg/l	.125	0.108	86.2	35.6-163	WG748852
trans-1,3-Dichloropropene	mg/l	.025	0.0226	90.5	74.3-123	WG748852
4-Bromofluorobenzene				101.0	71-126	WG748852
Dibromofluoromethane				97.40	78.3-121	WG748852
Toluene-d8				102.0	88.5-111	WG748852
2-Butanone (MEK)	mg/kg	.125	0.0870	69.6	53.7-153	WG748875
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.0884	70.7	70.4-137	WG748875
Acetone	mg/kg	.125	0.115	92.2	35.1-175	WG748875
trans-1,3-Dichloropropene	mg/kg	.025	0.0237	94.9	75.9-124	WG748875
4-Bromofluorobenzene				100.0	71-126	WG748875
Dibromofluoromethane				98.60	78.3-121	WG748875
Toluene-d8				96.90	88.5-111	WG748875

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0226	0.0236	90.0	72.9-124	4.11	20	WG747806
1,1,1-Trichloroethane	mg/kg	0.0257	0.0274	103.	73.7-124	6.32	20	WG747806
1,1,2,2-Tetrachloroethane	mg/kg	0.0259	0.0272	104.	69.4-122	5.04	20	WG747806
1,1,2-Trichloroethane	mg/kg	0.0258	0.0269	103.	79.1-118	4.41	20	WG747806
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0242	0.0256	97.0	70-146	5.46	20	WG747806
1,1-Dichloroethane	mg/kg	0.0228	0.0242	91.0	75-124	5.94	20	WG747806
1,1-Dichloroethene	mg/kg	0.0226	0.0241	90.0	70.4-129	6.53	20	WG747806
1,1-Dichloropropene	mg/kg	0.0236	0.0253	94.0	74.9-124	7.05	20	WG747806
1,2,3-Trichlorobenzene	mg/kg	0.0241	0.0257	96.0	69.3-131	6.64	20	WG747806
1,2,3-Trichloropropane	mg/kg	0.0277	0.0288	111.	71.4-123	4.03	20	WG747806
1,2,3-Trimethylbenzene	mg/kg	0.0226	0.0243	90.0	73.6-113	7.09	20	WG747806
1,2,4-Trichlorobenzene	mg/kg	0.0229	0.0240	92.0	71.9-137	4.47	20	WG747806
1,2,4-Trimethylbenzene	mg/kg	0.0231	0.0240	92.0	75.5-122	3.85	20	WG747806
1,2-Dibromo-3-Chloropropane	mg/kg	0.0230	0.0229	92.0	62.8-133	0.400	20	WG747806
1,2-Dibromoethane	mg/kg	0.0258	0.0272	103.	78.6-120	5.14	20	WG747806
1,2-Dichlorobenzene	mg/kg	0.0237	0.0250	95.0	78.3-118	5.30	20	WG747806
1,2-Dichloroethane	mg/kg	0.0260	0.0280	104.	70.1-124	7.52	20	WG747806
1,2-Dichloropropane	mg/kg	0.0221	0.0237	88.0	77.9-119	6.65	20	WG747806
1,3,5-Trimethylbenzene	mg/kg	0.0237	0.0247	95.0	75.9-124	4.22	20	WG747806
1,3-Dichlorobenzene	mg/kg	0.0245	0.0254	98.0	72-126	3.48	20	WG747806
1,3-Dichloropropane	mg/kg	0.0241	0.0260	96.0	79.1-117	7.39	20	WG747806
1,4-Dichlorobenzene	mg/kg	0.0231	0.0241	92.0	78.3-117	4.52	20	WG747806
2,2-Dichloropropane	mg/kg	0.0234	0.0248	94.0	61.3-136	5.65	20	WG747806
2-Chloroethyl vinyl ether	mg/kg	0.114	0.122	91.0	37.7-157	6.53	20	WG747806
2-Chlorotoluene	mg/kg	0.0237	0.0245	95.0	75.6-121	3.45	20	WG747806
4-Chlorotoluene	mg/kg	0.0241	0.0250	96.0	77.3-120	3.73	20	WG747806

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Acrylonitrile	mg/kg	0.130	0.141	104.	56.4-128	8.59	20	WG747806
Benzene	mg/kg	0.0235	0.0250	94.0	77.1-121	6.32	20	WG747806
Bromobenzene	mg/kg	0.0237	0.0247	95.0	78.2-115	3.93	20	WG747806
Bromodichloromethane	mg/kg	0.0240	0.0257	96.0	74.9-115	6.83	20	WG747806
Bromoform	mg/kg	0.0246	0.0251	98.0	65.9-132	2.21	20	WG747806
Bromomethane	mg/kg	0.0226	0.0243	90.0	48.7-165	7.06	20	WG747806
Carbon tetrachloride	mg/kg	0.0243	0.0258	97.0	70-124	5.90	20	WG747806
Chlorobenzene	mg/kg	0.0241	0.0252	96.0	79.1-119	4.44	20	WG747806
Chlorodibromomethane	mg/kg	0.0255	0.0266	102.	73.5-121	3.93	20	WG747806
Chloroethane	mg/kg	0.0209	0.0223	84.0	66.2-132	6.36	20	WG747806
Chloroform	mg/kg	0.0244	0.0261	98.0	76.7-122	6.53	20	WG747806
Chloromethane	mg/kg	0.0190	0.0201	76.0	63.4-131	5.59	20	WG747806
cis-1,2-Dichloroethene	mg/kg	0.0250	0.0269	100.	78.2-119	7.17	20	WG747806
cis-1,3-Dichloropropene	mg/kg	0.0223	0.0239	89.0	79.6-120	7.16	20	WG747806
Di-isopropyl ether	mg/kg	0.0245	0.0255	98.0	70.4-133	4.21	20	WG747806
Dibromomethane	mg/kg	0.0251	0.0263	100.	79.4-120	4.79	20	WG747806
Dichlorodifluoromethane	mg/kg	0.0229	0.0241	92.0	57.1-137	5.05	20	WG747806
Ethylbenzene	mg/kg	0.0236	0.0249	94.0	79.7-122	5.49	20	WG747806
Hexachloro-1,3-butadiene	mg/kg	0.0210	0.0220	84.0	68.2-123	4.35	20	WG747806
Isopropylbenzene	mg/kg	0.0236	0.0245	94.0	80-135	3.52	20	WG747806
Methyl tert-butyl ether	mg/kg	0.0238	0.0241	95.0	73-129	1.26	20	WG747806
Methylene Chloride	mg/kg	0.0242	0.0258	97.0	72.6-120	6.58	20	WG747806
n-Butylbenzene	mg/kg	0.0221	0.0237	88.0	77.5-126	6.92	20	WG747806
n-Propylbenzene	mg/kg	0.0237	0.0245	95.0	77.9-123	3.55	20	WG747806
Naphthalene	mg/kg	0.0251	0.0267	100.	69.8-128	6.28	20	WG747806
p-Isopropyltoluene	mg/kg	0.0233	0.0239	93.0	75.8-129	2.61	20	WG747806
sec-Butylbenzene	mg/kg	0.0238	0.0246	95.0	75.8-126	3.49	20	WG747806
Styrene	mg/kg	0.0194	0.0213	78*	82.4-126	9.28	20	WG747806
tert-Butylbenzene	mg/kg	0.0233	0.0241	93.0	76.4-126	3.36	20	WG747806
Tetrachloroethene	mg/kg	0.0231	0.0246	92.0	73.9-125	6.46	20	WG747806
Toluene	mg/kg	0.0231	0.0244	92.0	79.7-118	5.74	20	WG747806
trans-1,2-Dichloroethene	mg/kg	0.0239	0.0254	96.0	73.8-122	5.77	20	WG747806
Trichloroethene	mg/kg	0.0235	0.0246	94.0	77.9-118	4.56	20	WG747806
Trichlorofluoromethane	mg/kg	0.0252	0.0265	101.	67.7-131	5.04	20	WG747806
Vinyl chloride	mg/kg	0.0207	0.0222	83.0	66.7-130	6.79	20	WG747806
Xylenes, Total	mg/kg	0.0673	0.0708	90.0	78.8-121	4.99	20	WG747806
4-Bromofluorobenzene				102.0	71-126			WG747806
Dibromofluoromethane				109.0	78.3-121			WG747806
Toluene-d8				104.0	88.5-111			WG747806
1,1,1,2-Tetrachloroethane	mg/l	0.0217	0.0238	87.0	74.2-124	9.31	20	WG747776
1,1,1-Trichloroethane	mg/l	0.0238	0.0255	95.0	73.2-123	7.00	20	WG747776
1,1,2,2-Tetrachloroethane	mg/l	0.0257	0.0286	103.	70.7-122	11.0	20	WG747776
1,1,2-Trichloroethane	mg/l	0.0249	0.0281	100.	77.7-118	11.9	20	WG747776
1,1,2-Trichlorotrifluoroethane	mg/l	0.0215	0.0239	86.0	67.2-143	10.4	20	WG747776
1,1-Dichloroethane	mg/l	0.0200	0.0222	80.0	70.7-126	10.3	20	WG747776
1,1-Dichloroethene	mg/l	0.0193	0.0212	77.0	67.8-129	9.30	20	WG747776
1,1-Dichloropropene	mg/l	0.0210	0.0229	84.0	73.1-125	8.55	20	WG747776
1,2,3-Trichlorobenzene	mg/l	0.0247	0.0257	99.0	64.9-135	4.11	20	WG747776
1,2,3-Trichloropropane	mg/l	0.0276	0.0312	110.	71.8-121	12.3	20	WG747776
1,2,3-Trimethylbenzene	mg/l	0.0221	0.0237	88.0	72.3-116	7.13	20	WG747776
1,2,4-Trichlorobenzene	mg/l	0.0235	0.0239	94.0	69.7-136	1.78	20	WG747776
1,2,4-Trimethylbenzene	mg/l	0.0227	0.0251	91.0	75-123	10.1	20	WG747776
1,2-Dibromo-3-Chloropropane	mg/l	0.0225	0.0254	90.0	65.4-128	11.8	20	WG747776
1,2-Dibromoethane	mg/l	0.0244	0.0278	98.0	76.6-121	12.8	20	WG747776
1,2-Dichlorobenzene	mg/l	0.0233	0.0246	93.0	78.4-117	5.64	20	WG747776
1,2-Dichloroethane	mg/l	0.0239	0.0274	95.0	68.8-124	13.7	20	WG747776
1,2-Dichloropropane	mg/l	0.0211	0.0229	84.0	76.5-119	8.16	20	WG747776

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
1,3,5-Trimethylbenzene	mg/l	0.0230	0.0245	92.0	75.6-124	6.06	20	WG747776
1,3-Dichlorobenzene	mg/l	0.0238	0.0255	95.0	70.8-128	6.67	20	WG747776
1,3-Dichloropropane	mg/l	0.0238	0.0259	95.0	77.4-117	8.51	20	WG747776
1,4-Dichlorobenzene	mg/l	0.0227	0.0236	91.0	78.8-115	3.87	20	WG747776
2,2-Dichloropropane	mg/l	0.0219	0.0232	88.0	62.4-133	6.01	20	WG747776
2-Chloroethyl vinyl ether	mg/l	0.104	0.127	83.0	43.8-150	20.1*	20	WG747776
2-Chlorotoluene	mg/l	0.0223	0.0238	89.0	74.7-122	6.52	20	WG747776
4-Chlorotoluene	mg/l	0.0234	0.0250	94.0	77.5-120	6.49	20	WG747776
Acrolein	mg/l	0.126	0.146	100.	10-190	14.9	28.1	WG747776
Acrylonitrile	mg/l	0.119	0.141	95.0	55.2-130	16.7	20	WG747776
Benzene	mg/l	0.0209	0.0232	84.0	74.8-121	10.5	20	WG747776
Bromobenzene	mg/l	0.0230	0.0247	92.0	77.5-116	6.93	20	WG747776
Bromodichloromethane	mg/l	0.0227	0.0251	91.0	75.1-116	10.1	20	WG747776
Bromoform	mg/l	0.0243	0.0277	97.0	67.5-130	13.2	20	WG747776
Bromomethane	mg/l	0.0191	0.0207	76.0	49.9-162	8.18	20	WG747776
Carbon tetrachloride	mg/l	0.0221	0.0238	88.0	70.2-123	7.65	20	WG747776
Chlorobenzene	mg/l	0.0227	0.0246	91.0	78.1-119	8.09	20	WG747776
Chlorodibromomethane	mg/l	0.0251	0.0279	100.	74-121	10.7	20	WG747776
Chloroethane	mg/l	0.0174	0.0200	70.0	61.7-135	13.6	20	WG747776
Chloroform	mg/l	0.0230	0.0252	92.0	76-121	9.06	20	WG747776
Chloromethane	mg/l	0.0161	0.0175	64.0	61.5-129	8.49	20	WG747776
cis-1,2-Dichloroethene	mg/l	0.0221	0.0245	88.0	76-119	10.6	20	WG747776
cis-1,3-Dichloropropene	mg/l	0.0215	0.0236	86.0	78.2-120	9.43	20	WG747776
Di-isopropyl ether	mg/l	0.0220	0.0251	88.0	65.6-132	13.2	20	WG747776
Dibromomethane	mg/l	0.0230	0.0268	92.0	79.5-118	15.4	20	WG747776
Dichlorodifluoromethane	mg/l	0.0205	0.0214	82.0	54.8-135	4.24	20	WG747776
Ethylbenzene	mg/l	0.0226	0.0243	90.0	78.8-122	7.24	20	WG747776
Hexachloro-1,3-butadiene	mg/l	0.0212	0.0207	85.0	64.7-129	2.43	20	WG747776
Isopropylbenzene	mg/l	0.0228	0.0243	91.0	78.6-132	6.34	20	WG747776
Methyl tert-butyl ether	mg/l	0.0208	0.0244	83.0	71.2-126	16.0	20	WG747776
Methylene Chloride	mg/l	0.0202	0.0230	81.0	70.3-120	12.9	20	WG747776
n-Butylbenzene	mg/l	0.0221	0.0224	88.0	76.2-126	1.34	20	WG747776
n-Propylbenzene	mg/l	0.0230	0.0245	92.0	78.2-122	6.45	20	WG747776
Naphthalene	mg/l	0.0265	0.0299	106.	68.4-128	11.9	20	WG747776
p-Isopropyltoluene	mg/l	0.0225	0.0239	90.0	74-131	5.90	20	WG747776
sec-Butylbenzene	mg/l	0.0231	0.0244	92.0	74.4-127	5.22	20	WG747776
Styrene	mg/l	0.0189	0.0209	75*	80.4-126	10.2	20	WG747776
tert-Butylbenzene	mg/l	0.0227	0.0240	91.0	75.3-126	5.68	20	WG747776
Tetrachloroethene	mg/l	0.0219	0.0227	88.0	72.6-126	3.37	20	WG747776
Toluene	mg/l	0.0218	0.0233	87.0	79.7-116	6.80	20	WG747776
trans-1,2-Dichloroethene	mg/l	0.0200	0.0225	80.0	72.6-121	11.9	20	WG747776
Trichloroethene	mg/l	0.0221	0.0237	88.0	77.7-118	7.16	20	WG747776
Trichlorofluoromethane	mg/l	0.0222	0.0241	89.0	63.5-135	7.90	20	WG747776
Vinyl chloride	mg/l	0.0174	0.0190	70.0	65.9-128	8.74	20	WG747776
Xylenes, Total	mg/l	0.0646	0.0695	86.0	78.7-121	7.31	20	WG747776
4-Bromofluorobenzene				99.60	71-126			WG747776
Dibromofluoromethane				105.0	78.3-121			WG747776
Toluene-d8				103.0	88.5-111			WG747776
2-Butanone (MEK)	mg/l	0.0992	0.0923	79.0	55-149	7.21	20	WG748852
4-Methyl-2-pentanone (MIBK)	mg/l	0.110	0.0985	88.0	70.5-133	10.6	20	WG748852
Acetone	mg/l	0.121	0.108	97.0	35.6-163	11.8	23.9	WG748852
trans-1,3-Dichloropropene	mg/l	0.0251	0.0226	100.	74.3-123	10.2	20	WG748852
4-Bromofluorobenzene				96.60	71-126			WG748852
Dibromofluoromethane				95.40	78.3-121			WG748852
Toluene-d8				101.0	88.5-111			WG748852

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
2-Butanone (MEK)	mg/kg	0.100	0.0870	80.0	53.7-153	14.1	21.2	WG748875
4-Methyl-2-pentanone (MIBK)	mg/kg	0.101	0.0884	80.0	70.4-137	12.9	20	WG748875
Acetone	mg/kg	0.134	0.115	108.	35.1-175	15.3	26.1	WG748875
trans-1,3-Dichloropropene	mg/kg	0.0239	0.0237	96.0	75.9-124	0.890	20	WG748875
4-Bromofluorobenzene				96.10	71-126			WG748875
Dibromofluoromethane				98.00	78.3-121			WG748875
Toluene-d8				96.20	88.5-111			WG748875

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.110	0.0	.025	88.0	64-128	L726613-09	WG747806
1,1,1-Trichloroethane	mg/kg	0.138	0.0	.025	110.	58.7-134	L726613-09	WG747806
1,1,2,2-Tetrachloroethane	mg/kg	0.126	0.0	.025	100.	56-132	L726613-09	WG747806
1,1,2-Trichloroethane	mg/kg	0.128	0.0	.025	100.	66.3-125	L726613-09	WG747806
1,1,2-Trichlorotrifluoroethane	mg/kg	0.125	0.0	.025	100.	54.8-154	L726613-09	WG747806
1,1-Dichloroethane	mg/kg	0.119	0.0	.025	95.0	58.5-132	L726613-09	WG747806
1,1-Dichloroethene	mg/kg	0.124	0.0	.025	100.	51.1-140	L726613-09	WG747806
1,1-Dichloropropene	mg/kg	0.124	0.0	.025	99.0	57.3-136	L726613-09	WG747806
1,2,3-Trichlorobenzene	mg/kg	0.0776	0.0	.025	62.0	59.1-138	L726613-09	WG747806
1,2,3-Trichloropropane	mg/kg	0.135	0.0	.025	110.	61.4-128	L726613-09	WG747806
1,2,3-Trimethylbenzene	mg/kg	0.105	0.0	.025	84.0	61.3-122	L726613-09	WG747806
1,2,4-Trichlorobenzene	mg/kg	0.0758	0.0	.025	61.0*	63.6-143	L726613-09	WG747806
1,2,4-Trimethylbenzene	mg/kg	0.101	0.0	.025	81.0	57.4-137	L726613-09	WG747806
1,2-Dibromo-3-Chloropropane	mg/kg	0.107	0.0	.025	86.0	57.3-136	L726613-09	WG747806
1,2-Dibromoethane	mg/kg	0.125	0.0	.025	100.	67.1-125	L726613-09	WG747806
1,2-Dichlorobenzene	mg/kg	0.101	0.0	.025	81.0	68.2-123	L726613-09	WG747806
1,2-Dichloroethane	mg/kg	0.133	0.0	.025	110.	60-126	L726613-09	WG747806
1,2-Dichloropropane	mg/kg	0.112	0.0	.025	90.0	64.2-123	L726613-09	WG747806
1,3,5-Trimethylbenzene	mg/kg	0.104	0.0	.025	83.0	63.6-132	L726613-09	WG747806
1,3-Dichlorobenzene	mg/kg	0.103	0.0	.025	82.0	63.1-131	L726613-09	WG747806
1,3-Dichloropropane	mg/kg	0.122	0.0	.025	98.0	67.9-121	L726613-09	WG747806
1,4-Dichlorobenzene	mg/kg	0.0977	0.0	.025	78.0	68.6-123	L726613-09	WG747806
2,2-Dichloropropane	mg/kg	0.129	0.0	.025	100.	50.5-144	L726613-09	WG747806
2-Chloroethyl vinyl ether	mg/kg	0.553	0.0	.125	89.0	10-155	L726613-09	WG747806
2-Chlorotoluene	mg/kg	0.104	0.0	.025	83.0	63.6-128	L726613-09	WG747806
4-Chlorotoluene	mg/kg	0.106	0.0	.025	84.0	65.7-127	L726613-09	WG747806
Acrylonitrile	mg/kg	0.621	0.0	.125	99.0	49.4-133	L726613-09	WG747806
Benzene	mg/kg	0.121	0.0	.025	97.0	54.3-133	L726613-09	WG747806
Bromobenzene	mg/kg	0.109	0.0	.025	87.0	63.9-124	L726613-09	WG747806
Bromodichloromethane	mg/kg	0.117	0.0	.025	94.0	63.9-121	L726613-09	WG747806
Bromoform	mg/kg	0.116	0.0	.025	93.0	59.5-134	L726613-09	WG747806
Bromomethane	mg/kg	0.121	0.0	.025	97.0	41.7-155	L726613-09	WG747806
Carbon tetrachloride	mg/kg	0.129	0.0	.025	100.	55.7-134	L726613-09	WG747806
Chlorobenzene	mg/kg	0.114	0.0	.025	91.0	67-125	L726613-09	WG747806
Chlorodibromomethane	mg/kg	0.126	0.0	.025	100.	64.3-125	L726613-09	WG747806
Chloroethane	mg/kg	0.115	0.0	.025	92.0	51.5-136	L726613-09	WG747806
Chloroform	mg/kg	0.129	0.0	.025	100.	63-129	L726613-09	WG747806
Chloromethane	mg/kg	0.103	0.0	.025	83.0	42.4-135	L726613-09	WG747806
cis-1,2-Dichloroethene	mg/kg	0.129	0.0	.025	100.	59.2-129	L726613-09	WG747806
cis-1,3-Dichloropropene	mg/kg	0.107	0.0	.025	85.0	66.4-125	L726613-09	WG747806
Di-isopropyl ether	mg/kg	0.125	0.0	.025	100.	56.9-136	L726613-09	WG747806
Dibromomethane	mg/kg	0.125	0.0	.025	100.	68.2-124	L726613-09	WG747806
Dichlorodifluoromethane	mg/kg	0.124	0.0	.025	99.0	40.6-144	L726613-09	WG747806
Ethylbenzene	mg/kg	0.114	0.0	.025	91.0	61.4-133	L726613-09	WG747806
Hexachloro-1,3-butadiene	mg/kg	0.0574	0.0	.025	46.0*	55.1-136	L726613-09	WG747806
Isopropylbenzene	mg/kg	0.109	0.0	.025	87.0	66.8-141	L726613-09	WG747806
Methyl tert-butyl ether	mg/kg	0.126	0.0	.025	100.	57.7-134	L726613-09	WG747806
Methylene Chloride	mg/kg	0.127	0.00335	.025	99.0	58.1-122	L726613-09	WG747806

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Level II

L726616

October 16, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
n-Butylbenzene	mg/kg	0.0825	0.0	.025	66.0	62.7-140	L726613-09	WG747806
n-Propylbenzene	mg/kg	0.103	0.0	.025	82.0	10-176	L726613-09	WG747806
Naphthalene	mg/kg	0.0991	0.000962	.025	78.0	58-135	L726613-09	WG747806
p-Isopropyltoluene	mg/kg	0.0935	0.0	.025	75.0	63.2-139	L726613-09	WG747806
sec-Butylbenzene	mg/kg	0.0963	0.0	.025	77.0	62.2-136	L726613-09	WG747806
Styrene	mg/kg	0.0866	0.0	.025	69.0	66.8-133	L726613-09	WG747806
tert-Butylbenzene	mg/kg	0.103	0.0	.025	82.0	63.3-134	L726613-09	WG747806
Tetrachloroethene	mg/kg	0.107	0.0	.025	86.0	53-139	L726613-09	WG747806
Toluene	mg/kg	0.114	0.0	.025	91.0	61.4-130	L726613-09	WG747806
trans-1,2-Dichloroethene	mg/kg	0.126	0.0	.025	100.	56.5-129	L726613-09	WG747806
Trichloroethene	mg/kg	0.117	0.0	.025	93.0	44.1-149	L726613-09	WG747806
Trichlorofluoromethane	mg/kg	0.138	0.0	.025	110.	49.6-145	L726613-09	WG747806
Vinyl chloride	mg/kg	0.116	0.0	.025	93.0	47.8-137	L726613-09	WG747806
Xylenes, Total	mg/kg	0.324	0.000320	.075	86.0	63.3-131	L726613-09	WG747806
4-Bromofluorobenzene					100.0	71-126		WG747806
Dibromofluoromethane					111.0	78.3-121		WG747806
Toluene-d8					103.0	88.5-111		WG747806
1,1,1,2-Tetrachloroethane	mg/l	0.0235	0.0	.025	94.0	64-128	L726612-01	WG747776
1,1,1-Trichloroethane	mg/l	0.0255	0.0	.025	100.	58.7-134	L726612-01	WG747776
1,1,2,2-Tetrachloroethane	mg/l	0.0300	0.0	.025	120.	56-132	L726612-01	WG747776
1,1,2-Trichloroethane	mg/l	0.0282	0.0	.025	110.	66.3-125	L726612-01	WG747776
1,1,2-Trichlorotrifluoroethane	mg/l	0.0225	0.0	.025	90.0	54.8-154	L726612-01	WG747776
1,1-Dichloroethane	mg/l	0.0219	0.0	.025	88.0	58.5-132	L726612-01	WG747776
1,1-Dichloroethene	mg/l	0.0207	0.0	.025	83.0	51.1-140	L726612-01	WG747776
1,1-Dichloropropene	mg/l	0.0230	0.0	.025	92.0	57.3-136	L726612-01	WG747776
1,2,3-Trichlorobenzene	mg/l	0.0265	0.0	.025	110.	59.1-138	L726612-01	WG747776
1,2,3-Trichloropropane	mg/l	0.0327	0.0	.025	130.*	61.4-128	L726612-01	WG747776
1,2,3-Trimethylbenzene	mg/l	0.0237	0.0	.025	95.0	61.3-122	L726612-01	WG747776
1,2,4-Trichlorobenzene	mg/l	0.0249	0.0	.025	100.	63.6-143	L726612-01	WG747776
1,2,4-Trimethylbenzene	mg/l	0.0236	0.0	.025	94.0	57.4-137	L726612-01	WG747776
1,2-Dibromo-3-Chloropropane	mg/l	0.0293	0.0	.025	120.	57.3-136	L726612-01	WG747776
1,2-Dibromoethane	mg/l	0.0286	0.0	.025	110.	67.1-125	L726612-01	WG747776
1,2-Dichlorobenzene	mg/l	0.0252	0.0	.025	100.	68.2-123	L726612-01	WG747776
1,2-Dichloroethane	mg/l	0.0272	0.0	.025	110.	60-126	L726612-01	WG747776
1,2-Dichloropropane	mg/l	0.0226	0.00125	.025	86.0	64.2-123	L726612-01	WG747776
1,3,5-Trimethylbenzene	mg/l	0.0237	0.0	.025	95.0	63.6-132	L726612-01	WG747776
1,3-Dichlorobenzene	mg/l	0.0251	0.0	.025	100.	63.1-131	L726612-01	WG747776
1,3-Dichloropropane	mg/l	0.0263	0.0	.025	100.	67.9-121	L726612-01	WG747776
1,4-Dichlorobenzene	mg/l	0.0240	0.0	.025	96.0	68.6-123	L726612-01	WG747776
2,2-Dichloropropane	mg/l	0.0235	0.0	.025	94.0	50.5-144	L726612-01	WG747776
2-Chloroethyl vinyl ether	mg/l	0.000962	0.0	.125	0.770*	10-155	L726612-01	WG747776
2-Chlorotoluene	mg/l	0.0238	0.0	.025	95.0	63.6-128	L726612-01	WG747776
4-Chlorotoluene	mg/l	0.0246	0.0	.025	98.0	65.7-127	L726612-01	WG747776
Acrolein	mg/l	0.156	0.0	.125	120.	10-200	L726612-01	WG747776
Acrylonitrile	mg/l	0.148	0.0	.125	120.	49.4-133	L726612-01	WG747776
Benzene	mg/l	0.0226	0.0	.025	90.0	54.3-133	L726612-01	WG747776
Bromobenzene	mg/l	0.0245	0.0	.025	98.0	63.9-124	L726612-01	WG747776
Bromodichloromethane	mg/l	0.0245	0.0	.025	98.0	63.9-121	L726612-01	WG747776
Bromoform	mg/l	0.0273	0.0	.025	110.	59.5-134	L726612-01	WG747776
Bromomethane	mg/l	0.0205	0.0	.025	82.0	41.7-155	L726612-01	WG747776
Carbon tetrachloride	mg/l	0.0239	0.0	.025	96.0	55.7-134	L726612-01	WG747776
Chlorobenzene	mg/l	0.0243	0.0	.025	97.0	67-125	L726612-01	WG747776
Chlorodibromomethane	mg/l	0.0277	0.0	.025	110.	64.3-125	L726612-01	WG747776
Chloroethane	mg/l	0.0187	0.0	.025	75.0	51.5-136	L726612-01	WG747776
Chloroform	mg/l	0.0246	0.0	.025	99.0	63-129	L726612-01	WG747776
Chloromethane	mg/l	0.0170	0.0	.025	68.0	42.4-135	L726612-01	WG747776
cis-1,2-Dichloroethene	mg/l	0.0244	0.0	.025	98.0	59.2-129	L726612-01	WG747776

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Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/l	0.0233	0.0	.025	93.0	66.4-125	L726612-01	WG747776
Di-isopropyl ether	mg/l	0.0243	0.0	.025	97.0	56.9-136	L726612-01	WG747776
Dibromomethane	mg/l	0.0268	0.0	.025	110.	68.2-124	L726612-01	WG747776
Dichlorodifluoromethane	mg/l	0.0212	0.0	.025	85.0	40.6-144	L726612-01	WG747776
Ethylbenzene	mg/l	0.0242	0.0	.025	97.0	61.4-133	L726612-01	WG747776
Hexachloro-1,3-butadiene	mg/l	0.0197	0.0	.025	79.0	55.1-136	L726612-01	WG747776
Isopropylbenzene	mg/l	0.0237	0.0	.025	95.0	66.8-141	L726612-01	WG747776
Methyl tert-butyl ether	mg/l	0.0245	0.0	.025	98.0	57.7-134	L726612-01	WG747776
Methylene Chloride	mg/l	0.0223	0.0	.025	89.0	58.1-122	L726612-01	WG747776
n-Butylbenzene	mg/l	0.0229	0.0	.025	92.0	62.7-140	L726612-01	WG747776
n-Propylbenzene	mg/l	0.0238	0.0	.025	95.0	65.9-131	L726612-01	WG747776
Naphthalene	mg/l	0.0310	0.0	.025	120.	58-135	L726612-01	WG747776
p-Isopropyltoluene	mg/l	0.0233	0.0	.025	93.0	63.2-139	L726612-01	WG747776
sec-Butylbenzene	mg/l	0.0238	0.0	.025	95.0	62.2-136	L726612-01	WG747776
Styrene	mg/l	0.0192	0.0	.025	77.0	66.8-133	L726612-01	WG747776
tert-Butylbenzene	mg/l	0.0236	0.0	.025	94.0	63.3-134	L726612-01	WG747776
Tetrachloroethene	mg/l	0.0227	0.0	.025	91.0	53-139	L726612-01	WG747776
Toluene	mg/l	0.0234	0.0	.025	93.0	61.4-130	L726612-01	WG747776
trans-1,2-Dichloroethene	mg/l	0.0218	0.0	.025	87.0	56.5-129	L726612-01	WG747776
Trichloroethene	mg/l	0.0233	0.0	.025	93.0	44.1-149	L726612-01	WG747776
Trichlorofluoromethane	mg/l	0.0241	0.0	.025	96.0	49.6-145	L726612-01	WG747776
Vinyl chloride	mg/l	0.0188	0.0	.025	75.0	47.8-137	L726612-01	WG747776
Xylenes, Total	mg/l	0.0676	0.0	.075	90.0	63.3-131	L726612-01	WG747776
4-Bromofluorobenzene					98.60	71-126		WG747776
Dibromofluoromethane					109.0	78.3-121		WG747776
Toluene-d8					103.0	88.5-111		WG747776
2-Butanone (MEK)	mg/l	0.103	0.000316	.125	82.0	22.4-138	L727214-01	WG748852
4-Methyl-2-pentanone (MIBK)	mg/l	0.121	0.0	.125	97.0	60.8-140	L727214-01	WG748852
Acetone	mg/l	0.103	0.00294	.125	80.0	10-130	L727214-01	WG748852
trans-1,3-Dichloropropene	mg/l	0.0261	0.0	.025	100.	64.1-128	L727214-01	WG748852
4-Bromofluorobenzene					102.0	71-126		WG748852
Dibromofluoromethane					101.0	78.3-121		WG748852
Toluene-d8					101.0	88.5-111		WG748852
2-Butanone (MEK)	mg/kg	0.0753	0.00241	.125	58.0	22.4-138	L726789-10	WG748875
4-Methyl-2-pentanone (MIBK)	mg/kg	0.0770	0.0	.125	62.0	60.8-140	L726789-10	WG748875
Acetone	mg/kg	0.112	0.0326	.125	64.0	10-130	L726789-10	WG748875
trans-1,3-Dichloropropene	mg/kg	0.0172	0.0	.025	69.0	64.1-128	L726789-10	WG748875
4-Bromofluorobenzene					96.80	71-126		WG748875
Dibromofluoromethane					101.0	78.3-121		WG748875
Toluene-d8					98.00	88.5-111		WG748875

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.102	0.110	81.2	64-128	7.86	20	L726613-09	WG747806
1,1,1-Trichloroethane	mg/kg	0.121	0.138	96.7	58.7-134	13.2	20	L726613-09	WG747806
1,1,2,2-Tetrachloroethane	mg/kg	0.112	0.126	89.6	56-132	11.9	22.2	L726613-09	WG747806
1,1,2-Trichloroethane	mg/kg	0.124	0.128	99.5	66.3-125	2.97	20	L726613-09	WG747806
1,1,2-Trichlorotrifluoroethane	mg/kg	0.112	0.125	89.8	54.8-154	11.1	22.5	L726613-09	WG747806
1,1-Dichloroethane	mg/kg	0.108	0.119	86.7	58.5-132	9.31	20	L726613-09	WG747806
1,1-Dichloroethene	mg/kg	0.107	0.124	85.7	51.1-140	14.8	20.2	L726613-09	WG747806
1,1-Dichloropropene	mg/kg	0.110	0.124	87.9	57.3-136	11.7	20	L726613-09	WG747806
1,2,3-Trichlorobenzene	mg/kg	0.0635	0.0776	50.8*	59.1-138	20.1	23.7	L726613-09	WG747806
1,2,3-Trichloropropane	mg/kg	0.123	0.135	98.4	61.4-128	9.58	22.4	L726613-09	WG747806
1,2,3-Trimethylbenzene	mg/kg	0.0920	0.105	73.6	61.3-122	12.9	20	L726613-09	WG747806

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,2,4-Trichlorobenzene	mg/kg	0.0624	0.0758	49.9*	63.6-143	19.4	21.9	L726613-09	WG747806
1,2,4-Trimethylbenzene	mg/kg	0.0891	0.101	71.3	57.4-137	12.2	20	L726613-09	WG747806
1,2-Dibromo-3-Chloropropane	mg/kg	0.0936	0.107	74.9	57.3-136	13.3	27	L726613-09	WG747806
1,2-Dibromoethane	mg/kg	0.122	0.125	97.2	67.1-125	3.10	20	L726613-09	WG747806
1,2-Dichlorobenzene	mg/kg	0.0882	0.101	70.6	68.2-123	13.8	20	L726613-09	WG747806
1,2-Dichloroethane	mg/kg	0.117	0.133	93.4	60-126	12.9	20	L726613-09	WG747806
1,2-Dichloropropane	mg/kg	0.108	0.112	86.2	64.2-123	3.65	20	L726613-09	WG747806
1,3,5-Trimethylbenzene	mg/kg	0.0921	0.104	73.6	63.6-132	12.4	20.5	L726613-09	WG747806
1,3-Dichlorobenzene	mg/kg	0.0891	0.103	71.3	63.1-131	14.5	20	L726613-09	WG747806
1,3-Dichloropropane	mg/kg	0.117	0.122	93.2	67.9-121	4.67	20	L726613-09	WG747806
1,4-Dichlorobenzene	mg/kg	0.0863	0.0977	69.0	68.6-123	12.4	20	L726613-09	WG747806
2,2-Dichloropropane	mg/kg	0.115	0.129	91.7	50.5-144	11.5	21.9	L726613-09	WG747806
2-Chloroethyl vinyl ether	mg/kg	0.492	0.553	78.7	10-155	11.7	40	L726613-09	WG747806
2-Chlorotoluene	mg/kg	0.0903	0.104	72.3	63.6-128	13.6	20	L726613-09	WG747806
4-Chlorotoluene	mg/kg	0.0929	0.106	74.3	65.7-127	12.9	20	L726613-09	WG747806
Acrylonitrile	mg/kg	0.576	0.621	92.2	49.4-133	7.46	25.3	L726613-09	WG747806
Benzene	mg/kg	0.111	0.121	89.1	54.3-133	8.60	20	L726613-09	WG747806
Bromobenzene	mg/kg	0.0975	0.109	78.0	63.9-124	11.1	20	L726613-09	WG747806
Bromodichloromethane	mg/kg	0.112	0.117	89.6	63.9-121	4.41	20	L726613-09	WG747806
Bromoform	mg/kg	0.106	0.116	85.2	59.5-134	8.56	20.8	L726613-09	WG747806
Bromomethane	mg/kg	0.106	0.121	85.0	41.7-155	13.3	20.5	L726613-09	WG747806
Carbon tetrachloride	mg/kg	0.113	0.129	90.2	55.7-134	13.2	20.3	L726613-09	WG747806
Chlorobenzene	mg/kg	0.105	0.114	83.9	67-125	7.98	20	L726613-09	WG747806
Chlorodibromomethane	mg/kg	0.119	0.126	95.0	64.3-125	5.74	20	L726613-09	WG747806
Chloroethane	mg/kg	0.101	0.115	80.4	51.5-136	13.4	20.8	L726613-09	WG747806
Chloroform	mg/kg	0.117	0.129	93.4	63-129	9.98	20	L726613-09	WG747806
Chloromethane	mg/kg	0.0963	0.103	77.0	42.4-135	7.02	20	L726613-09	WG747806
cis-1,2-Dichloroethene	mg/kg	0.117	0.129	93.9	59.2-129	9.36	20	L726613-09	WG747806
cis-1,3-Dichloropropene	mg/kg	0.102	0.107	81.7	66.4-125	4.42	20	L726613-09	WG747806
Di-isopropyl ether	mg/kg	0.115	0.125	91.8	56.9-136	8.44	20	L726613-09	WG747806
Dibromomethane	mg/kg	0.118	0.125	94.0	68.2-124	6.25	20	L726613-09	WG747806
Dichlorodifluoromethane	mg/kg	0.117	0.124	93.5	40.6-144	5.94	20.2	L726613-09	WG747806
Ethylbenzene	mg/kg	0.104	0.114	83.4	61.4-133	8.60	20	L726613-09	WG747806
Hexachloro-1,3-butadiene	mg/kg	0.0476	0.0574	38.1*	55.1-136	18.6	23.6	L726613-09	WG747806
Isopropylbenzene	mg/kg	0.0987	0.109	79.0	66.8-141	10.1	20	L726613-09	WG747806
Methyl tert-butyl ether	mg/kg	0.106	0.126	84.5	57.7-134	17.3	20	L726613-09	WG747806
Methylene Chloride	mg/kg	0.112	0.127	87.2	58.1-122	12.4	20	L726613-09	WG747806
n-Butylbenzene	mg/kg	0.0724	0.0825	57.9*	62.7-140	13.1	20	L726613-09	WG747806
n-Propylbenzene	mg/kg	0.0923	0.103	73.9	10-176	10.9	26.6	L726613-09	WG747806
Naphthalene	mg/kg	0.0816	0.0991	64.5	58-135	19.4	25.5	L726613-09	WG747806
p-Isopropyltoluene	mg/kg	0.0816	0.0935	65.3	63.2-139	13.6	20.4	L726613-09	WG747806
sec-Butylbenzene	mg/kg	0.0846	0.0963	67.7	62.2-136	13.0	20.3	L726613-09	WG747806
Styrene	mg/kg	0.0767	0.0866	61.4*	66.8-133	12.1	20	L726613-09	WG747806
tert-Butylbenzene	mg/kg	0.0904	0.103	72.4	63.3-134	13.0	20.3	L726613-09	WG747806
Tetrachloroethene	mg/kg	0.0997	0.107	79.8	53-139	7.19	20	L726613-09	WG747806
Toluene	mg/kg	0.108	0.114	86.4	61.4-130	5.00	20	L726613-09	WG747806
trans-1,2-Dichloroethene	mg/kg	0.113	0.126	90.4	56.5-129	11.0	20	L726613-09	WG747806
Trichloroethene	mg/kg	0.110	0.117	88.1	44.1-149	5.85	20	L726613-09	WG747806
Trichlorofluoromethane	mg/kg	0.121	0.138	97.1	49.6-145	12.7	21.2	L726613-09	WG747806
Vinyl chloride	mg/kg	0.103	0.116	82.8	47.8-137	11.7	20	L726613-09	WG747806
Xylenes, Total	mg/kg	0.295	0.324	78.4	63.3-131	9.46	20	L726613-09	WG747806
4-Bromofluorobenzene				96.80	71-126				WG747806
Dibromofluoromethane				104.0	78.3-121				WG747806
Toluene-d8				102.0	88.5-111				WG747806
1,1,1,2-Tetrachloroethane	mg/l	0.0233	0.0235	93.2	64-128	0.870	20	L726612-01	WG747776
1,1,1-Trichloroethane	mg/l	0.0253	0.0255	101.	58.7-134	0.830	20	L726612-01	WG747776
1,1,2,2-Tetrachloroethane	mg/l	0.0305	0.0300	122.	56-132	1.60	22.2	L726612-01	WG747776

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L726616

October 16, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0289	0.0282	115.	66.3-125	2.34	20	L726612-01	WG747776
1,1,2-Trichlorotrifluoroethane	mg/l	0.0232	0.0225	92.7	54.8-154	2.91	22.5	L726612-01	WG747776
1,1-Dichloroethane	mg/l	0.0218	0.0219	87.2	58.5-132	0.320	20	L726612-01	WG747776
1,1-Dichloroethene	mg/l	0.0205	0.0207	82.1	51.1-140	0.710	20.2	L726612-01	WG747776
1,1-Dichloropropene	mg/l	0.0229	0.0230	91.6	57.3-136	0.440	20	L726612-01	WG747776
1,2,3-Trichlorobenzene	mg/l	0.0263	0.0265	105.	59.1-138	0.890	23.7	L726612-01	WG747776
1,2,3-Trichloropropane	mg/l	0.0329	0.0327	132.*	61.4-128	0.650	22.4	L726612-01	WG747776
1,2,3-Trimethylbenzene	mg/l	0.0235	0.0237	93.8	61.3-122	1.12	20	L726612-01	WG747776
1,2,4-Trichlorobenzene	mg/l	0.0246	0.0249	98.5	63.6-143	1.03	21.9	L726612-01	WG747776
1,2,4-Trimethylbenzene	mg/l	0.0236	0.0236	94.2	57.4-137	0.100	20	L726612-01	WG747776
1,2-Dibromo-3-Chloropropane	mg/l	0.0285	0.0293	114.	57.3-136	2.81	27	L726612-01	WG747776
1,2-Dibromoethane	mg/l	0.0288	0.0286	115.	67.1-125	0.520	20	L726612-01	WG747776
1,2-Dichlorobenzene	mg/l	0.0251	0.0252	100.	68.2-123	0.240	20	L726612-01	WG747776
1,2-Dichloroethane	mg/l	0.0273	0.0272	109.	60-126	0.400	20	L726612-01	WG747776
1,2-Dichloropropane	mg/l	0.0230	0.0226	87.0	64.2-123	1.71	20	L726612-01	WG747776
1,3,5-Trimethylbenzene	mg/l	0.0239	0.0237	95.7	63.6-132	0.760	20.5	L726612-01	WG747776
1,3-Dichlorobenzene	mg/l	0.0251	0.0251	100.	63.1-131	0.180	20	L726612-01	WG747776
1,3-Dichloropropane	mg/l	0.0267	0.0263	107.	67.9-121	1.28	20	L726612-01	WG747776
1,4-Dichlorobenzene	mg/l	0.0237	0.0240	94.8	68.6-123	1.33	20	L726612-01	WG747776
2,2-Dichloropropane	mg/l	0.0235	0.0235	93.9	50.5-144	0.140	21.9	L726612-01	WG747776
2-Chloroethyl vinyl ether	mg/l	0.000678	0.000962	0.542*	10-155	34.7*	20	L726612-01	WG747776
2-Chlorotoluene	mg/l	0.0231	0.0238	92.2	63.6-128	3.04	20	L726612-01	WG747776
4-Chlorotoluene	mg/l	0.0244	0.0246	97.4	65.7-127	1.01	20	L726612-01	WG747776
Acrolein	mg/l	0.161	0.156	129.	10-200	3.61	27.7	L726612-01	WG747776
Acrylonitrile	mg/l	0.151	0.148	121.	49.4-133	1.83	25.3	L726612-01	WG747776
Benzene	mg/l	0.0228	0.0226	91.3	54.3-133	1.13	20	L726612-01	WG747776
Bromobenzene	mg/l	0.0248	0.0245	99.1	63.9-124	1.11	20	L726612-01	WG747776
Bromodichloromethane	mg/l	0.0252	0.0245	101.	63.9-121	2.68	20	L726612-01	WG747776
Bromoform	mg/l	0.0282	0.0273	113.	59.5-134	3.40	20.5	L726612-01	WG747776
Bromomethane	mg/l	0.0204	0.0205	81.7	41.7-155	0.190	21.9	L726612-01	WG747776
Carbon tetrachloride	mg/l	0.0239	0.0239	95.5	55.7-134	0.0500	20	L726612-01	WG747776
Chlorobenzene	mg/l	0.0242	0.0243	96.7	67-125	0.520	20	L726612-01	WG747776
Chlorodibromomethane	mg/l	0.0279	0.0277	112.	64.3-125	0.680	20.8	L726612-01	WG747776
Chloroethane	mg/l	0.0188	0.0187	75.2	51.5-136	0.540	40	L726612-01	WG747776
Chloroform	mg/l	0.0248	0.0246	99.1	63-129	0.540	20	L726612-01	WG747776
Chloromethane	mg/l	0.0168	0.0170	67.1	42.4-135	1.09	20	L726612-01	WG747776
cis-1,2-Dichloroethene	mg/l	0.0239	0.0244	95.7	59.2-129	1.90	20	L726612-01	WG747776
cis-1,3-Dichloropropene	mg/l	0.0234	0.0233	93.7	66.4-125	0.540	20	L726612-01	WG747776
Di-isopropyl ether	mg/l	0.0245	0.0243	98.0	56.9-136	0.780	20	L726612-01	WG747776
Dibromomethane	mg/l	0.0271	0.0268	108.	68.2-124	1.16	20	L726612-01	WG747776
Dichlorodifluoromethane	mg/l	0.0206	0.0212	82.5	40.6-144	2.76	20.2	L726612-01	WG747776
Ethylbenzene	mg/l	0.0237	0.0242	94.7	61.4-133	2.01	20	L726612-01	WG747776
Hexachloro-1,3-butadiene	mg/l	0.0194	0.0197	77.5	55.1-136	1.72	23.6	L726612-01	WG747776
Isopropylbenzene	mg/l	0.0234	0.0237	93.6	66.8-141	1.10	20	L726612-01	WG747776
Methyl tert-butyl ether	mg/l	0.0250	0.0245	100.	57.7-134	1.96	20	L726612-01	WG747776
Methylene Chloride	mg/l	0.0223	0.0223	89.0	58.1-122	0.360	20	L726612-01	WG747776
n-Butylbenzene	mg/l	0.0225	0.0229	90.1	62.7-140	1.61	20.3	L726612-01	WG747776
n-Propylbenzene	mg/l	0.0236	0.0238	94.5	65.9-131	0.870	20	L726612-01	WG747776
Naphthalene	mg/l	0.0311	0.0310	124.	58-135	0.260	25.5	L726612-01	WG747776
p-Isopropyltoluene	mg/l	0.0231	0.0233	92.6	63.2-139	0.720	20.4	L726612-01	WG747776
sec-Butylbenzene	mg/l	0.0237	0.0238	95.0	62.2-136	0.430	20.3	L726612-01	WG747776
Styrene	mg/l	0.0187	0.0192	74.7	66.8-133	2.73	20	L726612-01	WG747776
tert-Butylbenzene	mg/l	0.0234	0.0236	93.8	63.3-134	0.620	21	L726612-01	WG747776
Tetrachloroethene	mg/l	0.0223	0.0227	89.1	53-139	1.94	20	L726612-01	WG747776
Toluene	mg/l	0.0232	0.0234	93.0	61.4-130	0.510	20	L726612-01	WG747776
trans-1,2-Dichloroethene	mg/l	0.0218	0.0218	87.2	56.5-129	0.0900	20	L726612-01	WG747776
Trichloroethene	mg/l	0.0230	0.0233	92.1	44.1-149	1.35	20	L726612-01	WG747776
Trichlorofluoromethane	mg/l	0.0237	0.0241	94.7	49.6-145	1.58	21.2	L726612-01	WG747776
Vinyl chloride	mg/l	0.0186	0.0188	74.2	47.8-137	1.53	20	L726612-01	WG747776

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Quality Assurance Report
Level II

L726616

October 16, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Xylenes, Total	mg/l	0.0667	0.0676	89.0	63.3-131	1.34	20	L726612-01	WG747776
4-Bromofluorobenzene				100.0	71-126				WG747776
Dibromofluoromethane				109.0	78.3-121				WG747776
Toluene-d8				103.0	88.5-111				WG747776
2-Butanone (MEK)	mg/l	0.0952	0.103	75.9	22.4-138	7.37	27	L727214-01	WG748852
4-Methyl-2-pentanone (MIBK)	mg/l	0.113	0.121	90.3	60.8-140	7.28	25.1	L727214-01	WG748852
Acetone	mg/l	0.0988	0.103	76.7	10-130	4.39	27.9	L727214-01	WG748852
trans-1,3-Dichloropropene	mg/l	0.0248	0.0261	99.0	64.1-128	5.34	20	L727214-01	WG748852
4-Bromofluorobenzene				96.90	71-126				WG748852
Dibromofluoromethane				96.70	78.3-121				WG748852
Toluene-d8				98.20	88.5-111				WG748852
2-Butanone (MEK)	mg/kg	0.0586	0.0753	45.0	22.4-138	24.9	27	L726789-10	WG748875
4-Methyl-2-pentanone (MIBK)	mg/kg	0.0677	0.0770	54.1*	60.8-140	12.9	25.1	L726789-10	WG748875
Acetone	mg/kg	0.0790	0.112	37.1	10-130	34.8*	27.9	L726789-10	WG748875
trans-1,3-Dichloropropene	mg/kg	0.0151	0.0172	60.3*	64.1-128	13.4	20	L726789-10	WG748875
4-Bromofluorobenzene				98.90	71-126				WG748875
Dibromofluoromethane				100.0	78.3-121				WG748875
Toluene-d8				97.00	88.5-111				WG748875

Batch number /Run number / Sample number cross reference

WG748003: R2997086: L726616-07
WG747806: R2997187: L726616-01 02 03 04 05 07
WG748002: R2997217: L726616-01 02 03 04 05
WG747776: R2997478: L726616-06
WG748852: R2997958: L726616-06
WG748875: R2998021: L726616-01 02 03 04 05 07

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L726616

October 16, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): ChrisDeBoer
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk								Rem./Contaminant	Sample # (lab only)
AS-20-10	Grab	SS	10	10/6/14	0930	4	X	X										<01
AS-15-8	Grab	SS	8	10/6/14	1420	4	X	X										02
AS-16-15	Grab	SS	15	10/7/14	0920	4	X	X										03
AS-21-8	Grab	SS	8	10/7/14	1430	4	X	X										04
AS-14-8	Grab	SS	8	10/8/14	1000	4	X	X										05
TRIP BLANK	–	GW	–	–	–	1			X									06
AS-22-10	Grab	SS	10	10/8/14	1430	4	X	X										07

Analysis / Container / Preservative

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L# L726616

A007

Acctnum: PESENVSWA
Template: T97039
Prelogin: P484992
TSR: 358 - Jarred Willis
PB:
Shipped Via: FedEX Ground

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks:

pH _____ Temp _____
Flow _____ Other _____

6051 2430 6597

Hold #

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10/8/14	1700	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Walsby

Samples returned via: ☐ UPS ☑ FedEx ☐ Courier ☐ _____

Temp: 3.8 °C Bottles Received: 25

Date: 10-9-14 Time: 0900

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N V NA

pH Checked: NCF:

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Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Thursday October 23, 2014

Report Number: L728012
Samples Received: 10/16/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-8

Collected By : Chris DeBoen
Collection Date : 10/09/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	96.5		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-13-8

Collected By : Chris DeBoen
Collection Date : 10/09/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	90.8		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	92.3		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Reported: 10/23/14 15:51 Printed: 10/23/14 15:51

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-12-8

Collected By : Chris DeBoen
Collection Date : 10/10/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	90.0		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	0.10	0.056	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
n-Butylbenzene	0.0013	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0056	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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The reported analytical results relate only to the sample submitted

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-12-8

Collected By : Chris DeBoen
Collection Date : 10/10/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0056	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0056	mg/kg	8260C	10/22/14	1
n-Propylbenzene	0.0019	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.017	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	0.020	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	0.0053	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	0.0060	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	0.0084	0.0033	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	91.9		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	102.		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23-10

Collected By : Chris DeBoen
Collection Date : 10/10/14 15:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.0		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-23-10

Collected By : Chris DeBoen
Collection Date : 10/10/14 15:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0052	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0038	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0031	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	99.9		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	93.3		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	88.8		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-11-10

Collected By : Chris DeBoen
Collection Date : 10/13/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	88.7		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.056	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.056	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0056	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0028	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-11-10

Collected By : Chris DeBoen
Collection Date : 10/13/14 10:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0056	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0056	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0021	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0056	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0028	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0034	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	93.1		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	90.9		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-14-8.5

Collected By : Chris DeBoen
Collection Date : 10/13/14 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.4		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728012-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-14-8.5

Collected By : Chris DeBoen
Collection Date : 10/13/14 14:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0012	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	0.0044	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	0.0019	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	0.0015	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	99.6		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.6		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	89.1		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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The reported analytical results relate only to the sample submitted
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoen
Collection Date : 10/09/14 00:00

ESC Sample # : L728012-15

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260C	10/23/14	1
Acrolein	BDL	50.	ug/l	8260C	10/23/14	1
Acrylonitrile	BDL	10.	ug/l	8260C	10/23/14	1
Benzene	BDL	1.0	ug/l	8260C	10/23/14	1
Bromobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260C	10/23/14	1
Bromoform	BDL	1.0	ug/l	8260C	10/23/14	1
Bromomethane	BDL	5.0	ug/l	8260C	10/23/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260C	10/23/14	1
Chlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260C	10/23/14	1
Chloroethane	BDL	5.0	ug/l	8260C	10/23/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260C	10/23/14	1
Chloroform	BDL	5.0	ug/l	8260C	10/23/14	1
Chloromethane	BDL	2.5	ug/l	8260C	10/23/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260C	10/23/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260C	10/23/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260C	10/23/14	1
Dibromomethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260C	10/23/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260C	10/23/14	1
Ethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260C	10/23/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260C	10/23/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoen
Collection Date : 10/09/14 00:00

ESC Sample # : L728012-15

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260C	10/23/14	1
Methylene Chloride	BDL	5.0	ug/l	8260C	10/23/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260C	10/23/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260C	10/23/14	1
Naphthalene	BDL	5.0	ug/l	8260C	10/23/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Styrene	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260C	10/23/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
Toluene	BDL	5.0	ug/l	8260C	10/23/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
Trichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260C	10/23/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260C	10/23/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Vinyl chloride	BDL	1.0	ug/l	8260C	10/23/14	1
Xylenes, Total	BDL	3.0	ug/l	8260C	10/23/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/23/14	1
Dibromofluoromethane	95.0		% Rec.	8260C	10/23/14	1
4-Bromofluorobenzene	102.		% Rec.	8260C	10/23/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L728012-01	WG749931	SAMP	Acetone	R2999734	J5J3
	WG749931	SAMP	Acrylonitrile	R2999734	J5
	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	1,1-Dichloroethane	R2999734	J3
	WG749931	SAMP	trans-1,2-Dichloroethene	R2999734	J3
	WG749931	SAMP	Di-isopropyl ether	R2999734	J5J3
	WG749931	SAMP	Methylene Chloride	R2999734	J3
	WG749931	SAMP	Methyl tert-butyl ether	R2999734	J3
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728012-02	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728012-03	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728012-04	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728012-05	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J3	The associated batch QC was outside the established quality control range for precision.
J4	The associated batch QC was outside the established quality control range for accuracy.
J5	The sample matrix interfered with the ability to make any accurate determination; spike value is high

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/23/14 at 15:51:40

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L728012-01 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

Sample: L728012-02 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

Sample: L728012-03 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

Sample: L728012-04 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

Sample: L728012-05 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

Sample: L728012-15 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51

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Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG749325	10/20/14 09:08
Total Solids	< .1	%			WG749324	10/20/14 09:19
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,1-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichloropropane	< .0025	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromoethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,3,5-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,4-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
2,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
2-Butanone (MEK)	< .01	mg/kg			WG749931	10/22/14 19:11
2-Chloroethyl vinyl ether	< .05	mg/kg			WG749931	10/22/14 19:11
2-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG749931	10/22/14 19:11
Acetone	< .05	mg/kg			WG749931	10/22/14 19:11
Acrylonitrile	< .01	mg/kg			WG749931	10/22/14 19:11
Benzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromodichloromethane	< .001	mg/kg			WG749931	10/22/14 19:11
Bromoform	< .001	mg/kg			WG749931	10/22/14 19:11
Bromomethane	< .005	mg/kg			WG749931	10/22/14 19:11
Carbon tetrachloride	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorodibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Chloroethane	< .005	mg/kg			WG749931	10/22/14 19:11
Chloroform	< .005	mg/kg			WG749931	10/22/14 19:11
Chloromethane	< .0025	mg/kg			WG749931	10/22/14 19:11
cis-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
cis-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Di-isopropyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Dibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Dichlorodifluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Ethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Hexachloro-1,3-butadiene	< .001	mg/kg			WG749931	10/22/14 19:11
Isopropylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Methyl tert-butyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Methylene Chloride	< .005	mg/kg			WG749931	10/22/14 19:11
n-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
n-Propylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Naphthalene	< .005	mg/kg			WG749931	10/22/14 19:11
p-Isopropyltoluene	< .001	mg/kg			WG749931	10/22/14 19:11
sec-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Styrene	< .001	mg/kg			WG749931	10/22/14 19:11
tert-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Tetrachloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Toluene	< .005	mg/kg			WG749931	10/22/14 19:11
trans-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
trans-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichlorofluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Vinyl chloride	< .001	mg/kg			WG749931	10/22/14 19:11
Xylenes, Total	< .003	mg/kg			WG749931	10/22/14 19:11
4-Bromofluorobenzene		% Rec.	92.30	71-126	WG749931	10/22/14 19:11
Dibromofluoromethane		% Rec.	94.40	78.3-121	WG749931	10/22/14 19:11
Toluene-d8		% Rec.	99.50	88.5-111	WG749931	10/22/14 19:11
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,1-Trichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2-Trichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloropropene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,4-Trichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,4-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG750199	10/23/14 12:21
1,2-Dibromoethane	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,3,5-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,3-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,3-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,4-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
2,2-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
2-Butanone (MEK)	< .01	mg/l			WG750199	10/23/14 12:21
2-Chloroethyl vinyl ether	< .05	mg/l			WG750199	10/23/14 12:21
2-Chlorotoluene	< .001	mg/l			WG750199	10/23/14 12:21
4-Chlorotoluene	< .001	mg/l			WG750199	10/23/14 12:21
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG750199	10/23/14 12:21
Acrolein	< .025	mg/l			WG750199	10/23/14 12:21
Acrylonitrile	< .01	mg/l			WG750199	10/23/14 12:21
Benzene	< .001	mg/l			WG750199	10/23/14 12:21
Bromobenzene	< .001	mg/l			WG750199	10/23/14 12:21
Bromodichloromethane	< .001	mg/l			WG750199	10/23/14 12:21
Bromoform	< .001	mg/l			WG750199	10/23/14 12:21
Bromomethane	< .005	mg/l			WG750199	10/23/14 12:21
Carbon tetrachloride	< .001	mg/l			WG750199	10/23/14 12:21
Chlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
Chlorodibromomethane	< .001	mg/l			WG750199	10/23/14 12:21
Chloroethane	< .005	mg/l			WG750199	10/23/14 12:21
Chloroform	< .005	mg/l			WG750199	10/23/14 12:21
Chloromethane	< .0025	mg/l			WG750199	10/23/14 12:21

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Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,2-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
cis-1,3-Dichloropropene	< .001	mg/l			WG750199	10/23/14 12:21
Di-isopropyl ether	< .001	mg/l			WG750199	10/23/14 12:21
Dibromomethane	< .001	mg/l			WG750199	10/23/14 12:21
Dichlorodifluoromethane	< .005	mg/l			WG750199	10/23/14 12:21
Ethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Hexachloro-1,3-butadiene	< .001	mg/l			WG750199	10/23/14 12:21
Isopropylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Methyl tert-butyl ether	< .001	mg/l			WG750199	10/23/14 12:21
Methylene Chloride	< .005	mg/l			WG750199	10/23/14 12:21
n-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
n-Propylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Naphthalene	< .005	mg/l			WG750199	10/23/14 12:21
p-Isopropyltoluene	< .001	mg/l			WG750199	10/23/14 12:21
sec-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Styrene	< .001	mg/l			WG750199	10/23/14 12:21
tert-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Tetrachloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Toluene	< .005	mg/l			WG750199	10/23/14 12:21
trans-1,2-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Trichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Trichlorofluoromethane	< .005	mg/l			WG750199	10/23/14 12:21
Vinyl chloride	< .001	mg/l			WG750199	10/23/14 12:21
Xylenes, Total	< .003	mg/l			WG750199	10/23/14 12:21
4-Bromofluorobenzene		% Rec.	102.0	71-126	WG750199	10/23/14 12:21
Dibromofluoromethane		% Rec.	94.00	78.3-121	WG750199	10/23/14 12:21
Toluene-d8		% Rec.	102.0	88.5-111	WG750199	10/23/14 12:21
Acetone	< .05	mg/l			WG750188	10/23/14 12:24
trans-1,3-Dichloropropene	< .001	mg/l			WG750188	10/23/14 12:24
4-Bromofluorobenzene		% Rec.	103.0	71-126	WG750188	10/23/14 12:24
Dibromofluoromethane		% Rec.	101.0	78.3-121	WG750188	10/23/14 12:24
Toluene-d8		% Rec.	108.0	88.5-111	WG750188	10/23/14 12:24

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	74.3	71.9	3.28	5	L728014-02	WG749325
Total Solids	%	71.5	73.7	2.96	5	L728008-10	WG749324

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG749325
Total Solids	%	50	50.0	100.	85-115	WG749324
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0261	104.	72.9-124	WG749931
1,1,1-Trichloroethane	mg/kg	.025	0.0245	98.2	73.7-124	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0286	115.	69.4-122	WG749931
1,1,2-Trichloroethane	mg/kg	.025	0.0259	104.	79.1-118	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0289	116.	70-146	WG749931
1,1-Dichloroethane	mg/kg	.025	0.0254	102.	75-124	WG749931
1,1-Dichloroethene	mg/kg	.025	0.0280	112.	70.4-129	WG749931

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October 23, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1-Dichloropropene	mg/kg	.025	0.0253	101.	74.9-124	WG749931
1,2,3-Trichlorobenzene	mg/kg	.025	0.0278	111.	69.3-131	WG749931
1,2,3-Trichloropropane	mg/kg	.025	0.0272	109.	71.4-123	WG749931
1,2,3-Trimethylbenzene	mg/kg	.025	0.0253	101.	73.6-113	WG749931
1,2,4-Trichlorobenzene	mg/kg	.025	0.0286	115.	71.9-137	WG749931
1,2,4-Trimethylbenzene	mg/kg	.025	0.0272	109.	75.5-122	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0298	119.	62.8-133	WG749931
1,2-Dibromoethane	mg/kg	.025	0.0265	106.	78.6-120	WG749931
1,2-Dichlorobenzene	mg/kg	.025	0.0260	104.	78.3-118	WG749931
1,2-Dichloroethane	mg/kg	.025	0.0220	88.0	70.1-124	WG749931
1,2-Dichloropropane	mg/kg	.025	0.0285	114.	77.9-119	WG749931
1,3,5-Trimethylbenzene	mg/kg	.025	0.0275	110.	75.9-124	WG749931
1,3-Dichlorobenzene	mg/kg	.025	0.0279	112.	72-126	WG749931
1,3-Dichloropropane	mg/kg	.025	0.0261	104.	79.1-117	WG749931
1,4-Dichlorobenzene	mg/kg	.025	0.0267	107.	78.3-117	WG749931
2,2-Dichloropropane	mg/kg	.025	0.0258	103.	61.3-136	WG749931
2-Butanone (MEK)	mg/kg	.125	0.154	123.	53.7-153	WG749931
2-Chloroethyl vinyl ether	mg/kg	.125	0.128	102.	37.7-157	WG749931
2-Chlorotoluene	mg/kg	.025	0.0255	102.	75.6-121	WG749931
4-Chlorotoluene	mg/kg	.025	0.0272	109.	77.3-120	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.151	121.	70.4-137	WG749931
Acetone	mg/kg	.125	0.186	149.	35.1-175	WG749931
Acrylonitrile	mg/kg	.125	0.154	123.	56.4-128	WG749931
Benzene	mg/kg	.025	0.0264	106.	77.1-121	WG749931
Bromobenzene	mg/kg	.025	0.0255	102.	78.2-115	WG749931
Bromodichloromethane	mg/kg	.025	0.0246	98.6	74.9-115	WG749931
Bromoform	mg/kg	.025	0.0299	120.	65.9-132	WG749931
Bromomethane	mg/kg	.025	0.0393	157.	48.7-165	WG749931
Carbon tetrachloride	mg/kg	.025	0.0253	101.	70-124	WG749931
Chlorobenzene	mg/kg	.025	0.0260	104.	79.1-119	WG749931
Chlorodibromomethane	mg/kg	.025	0.0274	110.	73.5-121	WG749931
Chloroethane	mg/kg	.025	0.0334	134.*	66.2-132	WG749931
Chloroform	mg/kg	.025	0.0242	96.7	76.7-122	WG749931
Chloromethane	mg/kg	.025	0.0368	147.*	63.4-131	WG749931
cis-1,2-Dichloroethene	mg/kg	.025	0.0261	104.	78.2-119	WG749931
cis-1,3-Dichloropropene	mg/kg	.025	0.0275	110.	79.6-120	WG749931
Di-isopropyl ether	mg/kg	.025	0.0275	110.	70.4-133	WG749931
Dibromomethane	mg/kg	.025	0.0258	103.	79.4-120	WG749931
Dichlorodifluoromethane	mg/kg	.025	0.0295	118.	57.1-137	WG749931
Ethylbenzene	mg/kg	.025	0.0276	110.	79.7-122	WG749931
Hexachloro-1,3-butadiene	mg/kg	.025	0.0280	112.	68.2-123	WG749931
Isopropylbenzene	mg/kg	.025	0.0272	109.	80-135	WG749931
Methyl tert-butyl ether	mg/kg	.025	0.0257	103.	73-129	WG749931
Methylene Chloride	mg/kg	.025	0.0278	111.	72.6-120	WG749931
n-Butylbenzene	mg/kg	.025	0.0280	112.	77.5-126	WG749931
n-Propylbenzene	mg/kg	.025	0.0273	109.	77.9-123	WG749931
Naphthalene	mg/kg	.025	0.0296	118.	69.8-128	WG749931
p-Isopropyltoluene	mg/kg	.025	0.0284	114.	75.8-129	WG749931
sec-Butylbenzene	mg/kg	.025	0.0268	107.	75.8-126	WG749931
Styrene	mg/kg	.025	0.0286	115.	82.4-126	WG749931
tert-Butylbenzene	mg/kg	.025	0.0270	108.	76.4-126	WG749931
Tetrachloroethene	mg/kg	.025	0.0292	117.	73.9-125	WG749931
Toluene	mg/kg	.025	0.0273	109.	79.7-118	WG749931
trans-1,2-Dichloroethene	mg/kg	.025	0.0255	102.	73.8-122	WG749931
trans-1,3-Dichloropropene	mg/kg	.025	0.0289	116.	75.9-124	WG749931
Trichloroethene	mg/kg	.025	0.0260	104.	77.9-118	WG749931
Trichlorofluoromethane	mg/kg	.025	0.0280	112.	67.7-131	WG749931
Vinyl chloride	mg/kg	.025	0.0354	142.*	66.7-130	WG749931
Xylenes, Total	mg/kg	.075	0.0820	109.	78.8-121	WG749931

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Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Bromofluorobenzene				95.70	71-126	
Dibromofluoromethane				91.50	78.3-121	
Toluene-d8				100.0	88.5-111	
Acetone	mg/l	.125	0.124	99.5	35.6-163	WG750188
trans-1,3-Dichloropropene	mg/l	.025	0.0268	107.	74.3-123	WG750188
4-Bromofluorobenzene				102.0	71-126	WG750188
Dibromofluoromethane				97.20	78.3-121	WG750188
Toluene-d8				109.0	88.5-111	WG750188

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0259	0.0261	104.	72.9-124	0.690	20	WG749931
1,1,1-Trichloroethane	mg/kg	0.0240	0.0245	96.0	73.7-124	2.21	20	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0282	0.0286	113.	69.4-122	1.40	20	WG749931
1,1,2-Trichloroethane	mg/kg	0.0261	0.0259	104.	79.1-118	0.940	20	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0281	0.0289	112.	70-146	3.03	20	WG749931
1,1-Dichloroethane	mg/kg	0.0242	0.0254	97.0	75-124	4.97	20	WG749931
1,1-Dichloroethene	mg/kg	0.0268	0.0280	107.	70.4-129	4.38	20	WG749931
1,1-Dichloropropene	mg/kg	0.0240	0.0253	96.0	74.9-124	5.37	20	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0266	0.0278	106.	69.3-131	4.61	20	WG749931
1,2,3-Trichloropropane	mg/kg	0.0289	0.0272	115.	71.4-123	5.84	20	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0245	0.0253	98.0	73.6-113	3.17	20	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0278	0.0286	111.	71.9-137	2.90	20	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0267	0.0272	107.	75.5-122	1.72	20	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0294	0.0298	118.	62.8-133	1.31	20	WG749931
1,2-Dibromoethane	mg/kg	0.0266	0.0265	106.	78.6-120	0.280	20	WG749931
1,2-Dichlorobenzene	mg/kg	0.0257	0.0260	103.	78.3-118	1.05	20	WG749931
1,2-Dichloroethane	mg/kg	0.0214	0.0220	86.0	70.1-124	2.55	20	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0285	112.	77.9-119	2.14	20	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0268	0.0275	107.	75.9-124	2.55	20	WG749931
1,3-Dichlorobenzene	mg/kg	0.0277	0.0279	111.	72-126	0.840	20	WG749931
1,3-Dichloropropane	mg/kg	0.0257	0.0261	103.	79.1-117	1.62	20	WG749931
1,4-Dichlorobenzene	mg/kg	0.0260	0.0267	104.	78.3-117	2.78	20	WG749931
2,2-Dichloropropane	mg/kg	0.0242	0.0258	97.0	61.3-136	6.43	20	WG749931
2-Butanone (MEK)	mg/kg	0.162	0.154	130.	53.7-153	5.26	21.2	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.128	104.	37.7-157	1.70	20	WG749931
2-Chlorotoluene	mg/kg	0.0245	0.0255	98.0	75.6-121	3.77	20	WG749931
4-Chlorotoluene	mg/kg	0.0265	0.0272	106.	77.3-120	2.71	20	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.161	0.151	129.	70.4-137	6.45	20	WG749931
Acetone	mg/kg	0.169	0.186	135.	35.1-175	9.85	26.1	WG749931
Acrylonitrile	mg/kg	0.155	0.154	124.	56.4-128	0.380	20	WG749931
Benzene	mg/kg	0.0259	0.0264	104.	77.1-121	2.11	20	WG749931
Bromobenzene	mg/kg	0.0250	0.0255	100.	78.2-115	1.83	20	WG749931
Bromodichloromethane	mg/kg	0.0247	0.0246	99.0	74.9-115	0.0700	20	WG749931
Bromoform	mg/kg	0.0282	0.0299	113.	65.9-132	5.89	20	WG749931
Bromomethane	mg/kg	0.0381	0.0393	152.	48.7-165	3.08	20	WG749931
Carbon tetrachloride	mg/kg	0.0244	0.0253	98.0	70-124	3.68	20	WG749931
Chlorobenzene	mg/kg	0.0257	0.0260	103.	79.1-119	1.24	20	WG749931
Chlorodibromomethane	mg/kg	0.0270	0.0274	108.	73.5-121	1.43	20	WG749931
Chloroethane	mg/kg	0.0320	0.0334	128.	66.2-132	4.35	20	WG749931
Chloroform	mg/kg	0.0234	0.0242	94.0	76.7-122	3.05	20	WG749931
Chloromethane	mg/kg	0.0342	0.0368	137*	63.4-131	7.24	20	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0256	0.0261	102.	78.2-119	1.62	20	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0271	0.0275	108.	79.6-120	1.54	20	WG749931
Di-isopropyl ether	mg/kg	0.0264	0.0275	105.	70.4-133	4.45	20	WG749931
Dibromomethane	mg/kg	0.0259	0.0258	103.	79.4-120	0.380	20	WG749931
Dichlorodifluoromethane	mg/kg	0.0278	0.0295	111.	57.1-137	5.93	20	WG749931
Ethylbenzene	mg/kg	0.0270	0.0276	108.	79.7-122	2.24	20	WG749931

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Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Hexachloro-1,3-butadiene	mg/kg	0.0268	0.0280	107.	68.2-123	4.53	20	WG749931
Isopropylbenzene	mg/kg	0.0264	0.0272	105.	80-135	3.06	20	WG749931
Methyl tert-butyl ether	mg/kg	0.0254	0.0257	102.	73-129	1.16	20	WG749931
Methylene Chloride	mg/kg	0.0240	0.0278	96.0	72.6-120	14.8	20	WG749931
n-Butylbenzene	mg/kg	0.0267	0.0280	107.	77.5-126	4.50	20	WG749931
n-Propylbenzene	mg/kg	0.0264	0.0273	105.	77.9-123	3.48	20	WG749931
Naphthalene	mg/kg	0.0293	0.0296	117.	69.8-128	1.12	20	WG749931
p-Isopropyltoluene	mg/kg	0.0276	0.0284	110.	75.8-129	2.78	20	WG749931
sec-Butylbenzene	mg/kg	0.0265	0.0268	106.	75.8-126	1.27	20	WG749931
Styrene	mg/kg	0.0278	0.0286	111.	82.4-126	2.78	20	WG749931
tert-Butylbenzene	mg/kg	0.0265	0.0270	106.	76.4-126	2.13	20	WG749931
Tetrachloroethene	mg/kg	0.0290	0.0292	116.	73.9-125	0.780	20	WG749931
Toluene	mg/kg	0.0268	0.0273	107.	79.7-118	1.99	20	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0235	0.0255	94.0	73.8-122	7.98	20	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0292	0.0289	117.	75.9-124	0.940	20	WG749931
Trichloroethene	mg/kg	0.0270	0.0260	108.	77.9-118	3.58	20	WG749931
Trichlorofluoromethane	mg/kg	0.0269	0.0280	108.	67.7-131	3.71	20	WG749931
Vinyl chloride	mg/kg	0.0336	0.0354	134*	66.7-130	5.40	20	WG749931
Xylenes, Total	mg/kg	0.0807	0.0820	108.	78.8-121	1.57	20	WG749931
4-Bromofluorobenzene				94.40	71-126			WG749931
Dibromofluoromethane				91.00	78.3-121			WG749931
Toluene-d8				102.0	88.5-111			WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0260	0.0259	3*	-	0.260	20	WG750199
1,1,1-Trichloroethane	mg/l	0.0242	0.0246	2*	-	1.95	20	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0266	0.0269	3*	-	1.26	20	WG750199
1,1,2-Trichloroethane	mg/l	0.0270	0.0266	3*	-	1.66	20	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0245	2*	-	1.41	20	WG750199
1,1-Dichloroethane	mg/l	0.0247	0.0251	2*	-	1.45	20	WG750199
1,1-Dichloroethene	mg/l	0.0233	0.0235	2*	-	1.10	20	WG750199
1,1-Dichloropropene	mg/l	0.0248	0.0253	2*	-	2.15	20	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0263	0.0255	3*	-	2.90	20	WG750199
1,2,3-Trichloropropane	mg/l	0.0263	0.0260	3*	-	1.01	20	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0257	0.0250	2*	-	2.47	20	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0263	0.0264	3*	-	0.370	20	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0277	0.0273	3*	-	1.42	20	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0249	0.0247	2*	-	0.610	20	WG750199
1,2-Dibromoethane	mg/l	0.0261	0.0261	3*	-	0.300	20	WG750199
1,2-Dichlorobenzene	mg/l	0.0258	0.0258	2*	-	0.0600	20	WG750199
1,2-Dichloroethane	mg/l	0.0247	0.0251	2*	-	1.91	20	WG750199
1,2-Dichloropropane	mg/l	0.0259	0.0264	2*	-	1.81	20	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0279	0.0273	3*	-	2.32	20	WG750199
1,3-Dichlorobenzene	mg/l	0.0279	0.0280	3*	-	0.0800	20	WG750199
1,3-Dichloropropane	mg/l	0.0261	0.0255	3*	-	2.32	20	WG750199
1,4-Dichlorobenzene	mg/l	0.0255	0.0254	2*	-	0.190	20	WG750199
2,2-Dichloropropane	mg/l	0.0242	0.0249	2*	-	2.91	20	WG750199
2-Butanone (MEK)	mg/l	0.129	0.134	13*	-	3.96	20	WG750199
2-Chloroethyl vinyl ether	mg/l	0.119	0.122	12*	-	2.07	20	WG750199
2-Chlorotoluene	mg/l	0.0276	0.0273	3*	-	1.05	20	WG750199
4-Chlorotoluene	mg/l	0.0280	0.0275	3*	-	2.06	20	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.121	0.128	12*	-	5.80	20	WG750199
Acrolein	mg/l	0.124	0.131	12*	-	5.15	28.1	WG750199
Acrylonitrile	mg/l	0.118	0.124	12*	-	5.09	20	WG750199
Benzene	mg/l	0.0242	0.0246	2*	-	1.36	20	WG750199
Bromobenzene	mg/l	0.0264	0.0263	3*	-	0.530	20	WG750199
Bromodichloromethane	mg/l	0.0253	0.0258	2*	-	1.81	20	WG750199
Bromoform	mg/l	0.0263	0.0258	3*	-	1.88	20	WG750199
Bromomethane	mg/l	0.0247	0.0252	2*	-	1.93	20	WG750199

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PES Environmental, Inc.- WA
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Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Carbon tetrachloride	mg/l	0.0243	0.0248	2*	-	1.96	20	WG750199
Chlorobenzene	mg/l	0.0268	0.0261	3*	-	2.61	20	WG750199
Chlorodibromomethane	mg/l	0.0263	0.0258	3*	-	1.90	20	WG750199
Chloroethane	mg/l	0.0225	0.0223	2*	-	0.910	20	WG750199
Chloroform	mg/l	0.0244	0.0250	2*	-	2.75	20	WG750199
Chloromethane	mg/l	0.0240	0.0242	2*	-	0.820	20	WG750199
cis-1,2-Dichloroethene	mg/l	0.0240	0.0243	2*	-	1.14	20	WG750199
cis-1,3-Dichloropropene	mg/l	0.0259	0.0262	2*	-	1.19	20	WG750199
Di-isopropyl ether	mg/l	0.0242	0.0247	2*	-	1.79	20	WG750199
Dibromomethane	mg/l	0.0249	0.0259	2*	-	3.66	20	WG750199
Dichlorodifluoromethane	mg/l	0.0239	0.0244	2*	-	2.05	20	WG750199
Ethylbenzene	mg/l	0.0270	0.0265	3*	-	2.03	20	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0259	0.0248	2*	-	4.06	20	WG750199
Isopropylbenzene	mg/l	0.0272	0.0268	3*	-	1.59	20	WG750199
Methyl tert-butyl ether	mg/l	0.0230	0.0243	2*	-	5.62	20	WG750199
Methylene Chloride	mg/l	0.0223	0.0228	2*	-	2.11	20	WG750199
n-Butylbenzene	mg/l	0.0269	0.0268	3*	-	0.310	20	WG750199
n-Propylbenzene	mg/l	0.0273	0.0272	3*	-	0.480	20	WG750199
Naphthalene	mg/l	0.0242	0.0241	2*	-	0.280	20	WG750199
p-Isopropyltoluene	mg/l	0.0281	0.0277	3*	-	1.28	20	WG750199
sec-Butylbenzene	mg/l	0.0278	0.0275	3*	-	1.25	20	WG750199
Styrene	mg/l	0.0272	0.0271	3*	-	0.330	20	WG750199
tert-Butylbenzene	mg/l	0.0275	0.0270	3*	-	1.82	20	WG750199
Tetrachloroethene	mg/l	0.0269	0.0262	3*	-	2.76	20	WG750199
Toluene	mg/l	0.0255	0.0253	2*	-	0.630	20	WG750199
trans-1,2-Dichloroethene	mg/l	0.0242	0.0248	2*	-	2.20	20	WG750199
Trichloroethene	mg/l	0.0251	0.0255	2*	-	1.42	20	WG750199
Trichlorofluoromethane	mg/l	0.0243	0.0241	2*	-	0.630	20	WG750199
Vinyl chloride	mg/l	0.0251	0.0253	2*	-	0.630	20	WG750199
Xylenes, Total	mg/l	0.0812	0.0800	8*	-	1.44	20	WG750199
4-Bromofluorobenzene				106.0	71-126			WG750199
Dibromofluoromethane				93.90	78.3-121			WG750199
Toluene-d8				102.0	88.5-111			WG750199
Acetone	mg/l	0.126	0.124	100.	35.6-163	0.980	23.9	WG750188
trans-1,3-Dichloropropene	mg/l	0.0264	0.0268	106.	74.3-123	1.24	20	WG750188
4-Bromofluorobenzene				102.0	71-126			WG750188
Dibromofluoromethane				98.30	78.3-121			WG750188
Toluene-d8				107.0	88.5-111			WG750188

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0241	0.0	.025	97.0	64-128	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0230	0.0	.025	92.0	58.7-134	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0285	0.0	.025	110.	56-132	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0262	0.0	.025	100.	66.3-125	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0259	0.0	.025	100.	54.8-154	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0279	0.0	.025	110.	58.5-132	L728012-01	WG749931
1,1-Dichloroethene	mg/kg	0.0246	0.0	.025	98.0	51.1-140	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0218	0.0	.025	87.0	57.3-136	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0272	0.0	.025	110.	59.1-138	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0288	0.0	.025	120.	61.4-128	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0241	0.0	.025	96.0	61.3-122	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0270	0.0	.025	110.	63.6-143	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0246	0.0	.025	99.0	57.4-137	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0327	0.0	.025	130.	57.3-136	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0252	0.0	.025	100.	67.1-125	L728012-01	WG749931

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PES Environmental, Inc.- WA
Matt Dahl
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Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichlorobenzene	mg/kg	0.0252	0.0	.025	100.	68.2-123	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0213	0.0	.025	85.0	60-126	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0	.025	110.	64.2-123	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0245	0.0	.025	98.0	63.6-132	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0257	0.0	.025	100.	63.1-131	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0248	0.0	.025	99.0	67.9-121	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0253	0.0	.025	100.	68.6-123	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0238	0.0	.025	95.0	50.5-144	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.159	0.0	.125	130.	22.4-138	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.0	.125	100.	10-155	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0224	0.0	.025	90.0	63.6-128	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0246	0.0	.025	98.0	65.7-127	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.163	0.0	.125	130.	60.8-140	L728012-01	WG749931
Acetone	mg/kg	0.224	0.00268	.125	180.*	10-130	L728012-01	WG749931
Acrylonitrile	mg/kg	0.184	0.0	.125	150.*	49.4-133	L728012-01	WG749931
Benzene	mg/kg	0.0246	0.0	.025	98.0	54.3-133	L728012-01	WG749931
Bromobenzene	mg/kg	0.0234	0.0	.025	94.0	63.9-124	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0246	0.0	.025	98.0	63.9-121	L728012-01	WG749931
Bromoform	mg/kg	0.0289	0.0	.025	120.	59.5-134	L728012-01	WG749931
Bromomethane	mg/kg	0.0341	0.0	.025	140.	41.7-155	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0232	0.0	.025	93.0	55.7-134	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0241	0.0	.025	96.0	67-125	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0267	0.0	.025	110.	64.3-125	L728012-01	WG749931
Chloroethane	mg/kg	0.0292	0.0	.025	120.	51.5-136	L728012-01	WG749931
Chloroform	mg/kg	0.0232	0.0	.025	93.0	63-129	L728012-01	WG749931
Chloromethane	mg/kg	0.0299	0.0	.025	120.	42.4-135	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0248	0.0	.025	99.0	59.2-129	L728012-01	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0270	0.0	.025	110.	66.4-125	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0342	0.0	.025	140.*	56.9-136	L728012-01	WG749931
Dibromomethane	mg/kg	0.0256	0.0	.025	100.	68.2-124	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0237	0.0	.025	95.0	40.6-144	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0247	0.0	.025	99.0	61.4-133	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0227	0.0	.025	91.0	55.1-136	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0244	0.0	.025	97.0	66.8-141	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0317	0.0	.025	130.	57.7-134	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0283	0.000499	.025	110.	58.1-122	L728012-01	WG749931
n-Butylbenzene	mg/kg	0.0253	0.0	.025	100.	62.7-140	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0241	0.0	.025	96.0	10-176	L728012-01	WG749931
Naphthalene	mg/kg	0.0286	0.0	.025	110.	58-135	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0249	0.0	.025	100.	63.2-139	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0236	0.0	.025	94.0	62.2-136	L728012-01	WG749931
Styrene	mg/kg	0.0257	0.0	.025	100.	66.8-133	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0242	0.0	.025	97.0	63.3-134	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0258	0.0	.025	100.	53-139	L728012-01	WG749931
Toluene	mg/kg	0.0255	0.0	.025	100.	61.4-130	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0	.025	100.	56.5-129	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0279	0.0	.025	110.	64.1-128	L728012-01	WG749931
Trichloroethene	mg/kg	0.0249	0.0	.025	100.	44.1-149	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0245	0.0	.025	98.0	49.6-145	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0292	0.0	.025	120.	47.8-137	L728012-01	WG749931
Xylenes, Total	mg/kg	0.0739	0.0	.075	99.0	63.3-131	L728012-01	WG749931
4-Bromofluorobenzene					91.00	71-126		WG749931
Dibromofluoromethane					92.40	78.3-121		WG749931
Toluene-d8					100.0	88.5-111		WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0252	0.0	.025	100.	64-128	L729047-01	WG750199
1,1,1-Trichloroethane	mg/l	0.0241	0.0	.025	96.0	58.7-134	L729047-01	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0278	0.0	.025	110.	56-132	L729047-01	WG750199

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Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0266	0.0	.025	110.	66.3-125	L729047-01	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0	.025	97.0	54.8-154	L729047-01	WG750199
1,1-Dichloroethane	mg/l	0.0247	0.0	.025	99.0	58.5-132	L729047-01	WG750199
1,1-Dichloroethene	mg/l	0.0234	0.0	.025	94.0	51.1-140	L729047-01	WG750199
1,1-Dichloropropene	mg/l	0.0243	0.0	.025	97.0	57.3-136	L729047-01	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0242	0.0	.025	97.0	59.1-138	L729047-01	WG750199
1,2,3-Trichloropropane	mg/l	0.0280	0.0	.025	110.	61.4-128	L729047-01	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0242	0.0	.025	97.0	61.3-122	L729047-01	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0252	0.0	.025	100.	63.6-143	L729047-01	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	57.4-137	L729047-01	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0288	0.0	.025	120.	57.3-136	L729047-01	WG750199
1,2-Dibromoethane	mg/l	0.0260	0.0	.025	100.	67.1-125	L729047-01	WG750199
1,2-Dichlorobenzene	mg/l	0.0253	0.0	.025	100.	68.2-123	L729047-01	WG750199
1,2-Dichloroethane	mg/l	0.0248	0.0	.025	99.0	60-126	L729047-01	WG750199
1,2-Dichloropropane	mg/l	0.0256	0.0	.025	100.	64.2-123	L729047-01	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	63.6-132	L729047-01	WG750199
1,3-Dichlorobenzene	mg/l	0.0270	0.0	.025	110.	63.1-131	L729047-01	WG750199
1,3-Dichloropropane	mg/l	0.0253	0.0	.025	100.	67.9-121	L729047-01	WG750199
1,4-Dichlorobenzene	mg/l	0.0249	0.0	.025	99.0	68.6-123	L729047-01	WG750199
2,2-Dichloropropane	mg/l	0.0250	0.0	.025	100.	50.5-144	L729047-01	WG750199
2-Butanone (MEK)	mg/l	0.146	0.0	.125	120.	22.4-138	L729047-01	WG750199
2-Chloroethyl vinyl ether	mg/l	0.114	0.0	.125	91.0	10-155	L729047-01	WG750199
2-Chlorotoluene	mg/l	0.0266	0.0	.025	110.	63.6-128	L729047-01	WG750199
4-Chlorotoluene	mg/l	0.0272	0.0	.025	110.	65.7-127	L729047-01	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.136	0.0	.125	110.	60.8-140	L729047-01	WG750199
Acrolein	mg/l	0.146	0.0	.125	120.	10-200	L729047-01	WG750199
Acrylonitrile	mg/l	0.141	0.0	.125	110.	49.4-133	L729047-01	WG750199
Benzene	mg/l	0.0236	0.0	.025	94.0	54.3-133	L729047-01	WG750199
Bromobenzene	mg/l	0.0255	0.0	.025	100.	63.9-124	L729047-01	WG750199
Bromodichloromethane	mg/l	0.0250	0.0	.025	100.	63.9-121	L729047-01	WG750199
Bromoform	mg/l	0.0268	0.0	.025	110.	59.5-134	L729047-01	WG750199
Bromomethane	mg/l	0.0230	0.0	.025	92.0	41.7-155	L729047-01	WG750199
Carbon tetrachloride	mg/l	0.0237	0.0	.025	95.0	55.7-134	L729047-01	WG750199
Chlorobenzene	mg/l	0.0259	0.0	.025	100.	67-125	L729047-01	WG750199
Chlorodibromomethane	mg/l	0.0257	0.0	.025	100.	64.3-125	L729047-01	WG750199
Chloroethane	mg/l	0.0218	0.0	.025	87.0	51.5-136	L729047-01	WG750199
Chloroform	mg/l	0.0246	0.0	.025	98.0	63-129	L729047-01	WG750199
Chloromethane	mg/l	0.0214	0.0	.025	86.0	42.4-135	L729047-01	WG750199
cis-1,2-Dichloroethene	mg/l	0.0238	0.0	.025	95.0	59.2-129	L729047-01	WG750199
cis-1,3-Dichloropropene	mg/l	0.0255	0.0	.025	100.	66.4-125	L729047-01	WG750199
Di-isopropyl ether	mg/l	0.0236	0.0	.025	94.0	56.9-136	L729047-01	WG750199
Dibromomethane	mg/l	0.0258	0.0	.025	100.	68.2-124	L729047-01	WG750199
Dichlorodifluoromethane	mg/l	0.0204	0.0	.025	82.0	40.6-144	L729047-01	WG750199
Ethylbenzene	mg/l	0.0252	0.0	.025	100.	61.4-133	L729047-01	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0221	0.0	.025	88.0	55.1-136	L729047-01	WG750199
Isopropylbenzene	mg/l	0.0260	0.0	.025	100.	66.8-141	L729047-01	WG750199
Methyl tert-butyl ether	mg/l	0.0232	0.0	.025	93.0	57.7-134	L729047-01	WG750199
Methylene Chloride	mg/l	0.0223	0.000863	.025	86.0	58.1-122	L729047-01	WG750199
n-Butylbenzene	mg/l	0.0258	0.0	.025	100.	62.7-140	L729047-01	WG750199
n-Propylbenzene	mg/l	0.0262	0.0	.025	100.	65.9-131	L729047-01	WG750199
Naphthalene	mg/l	0.0249	0.0	.025	100.	58-135	L729047-01	WG750199
p-Isopropyltoluene	mg/l	0.0265	0.0	.025	110.	63.2-139	L729047-01	WG750199
sec-Butylbenzene	mg/l	0.0262	0.0	.025	100.	62.2-136	L729047-01	WG750199
Styrene	mg/l	0.0265	0.0	.025	110.	66.8-133	L729047-01	WG750199
tert-Butylbenzene	mg/l	0.0261	0.0	.025	100.	63.3-134	L729047-01	WG750199
Tetrachloroethene	mg/l	0.0257	0.0	.025	100.	53-139	L729047-01	WG750199
Toluene	mg/l	0.0244	0.0	.025	97.0	61.4-130	L729047-01	WG750199
trans-1,2-Dichloroethene	mg/l	0.0241	0.0	.025	96.0	56.5-129	L729047-01	WG750199
Trichloroethene	mg/l	0.0249	0.0	.025	99.0	44.1-149	L729047-01	WG750199

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PES Environmental, Inc.- WA
Matt Dahl
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Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichlorofluoromethane	mg/l	0.0233	0.0	.025	93.0	49.6-145	L729047-01	WG750199
Vinyl chloride	mg/l	0.0230	0.0	.025	92.0	47.8-137	L729047-01	WG750199
Xylenes, Total	mg/l	0.0773	0.0	.075	100.	63.3-131	L729047-01	WG750199
4-Bromofluorobenzene					105.0	71-126		WG750199
Dibromofluoromethane					96.00	78.3-121		WG750199
Toluene-d8					101.0	88.5-111		WG750199
Acetone	mg/l	0.113	0.00643	.125	86.0	10-130	L728927-01	WG750188
trans-1,3-Dichloropropene	mg/l	0.0285	0.0	.025	110.	64.1-128	L728927-01	WG750188
4-Bromofluorobenzene					102.0	71-126		WG750188
Dibromofluoromethane					101.0	78.3-121		WG750188
Toluene-d8					108.0	88.5-111		WG750188

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0213	0.0241	85.3	64-128	12.4	20	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0204	0.0230	81.5	58.7-134	12.2	20	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0278	0.0285	111.	56-132	2.26	22.2	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0240	0.0262	96.0	66.3-125	8.80	20	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0226	0.0259	90.4	54.8-154	13.8	22.5	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0208	0.0279	83.2	58.5-132	29.1*	20	L728012-01	WG749931
1,1-Dichloroethene	mg/kg	0.0219	0.0246	87.4	51.1-140	11.8	20.2	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0193	0.0218	77.2	57.3-136	12.3	20	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0240	0.0272	95.9	59.1-138	12.6	23.7	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0273	0.0288	109.	61.4-128	5.57	22.4	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0208	0.0241	83.3	61.3-122	14.7	20	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0235	0.0270	94.0	63.6-143	14.1	21.9	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0217	0.0246	86.8	57.4-137	12.7	20	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0295	0.0327	118.	57.3-136	10.3	27	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0239	0.0252	95.6	67.1-125	5.31	20	L728012-01	WG749931
1,2-Dichlorobenzene	mg/kg	0.0218	0.0252	87.2	68.2-123	14.5	20	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0192	0.0213	76.6	60-126	10.5	20	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0236	0.0279	94.2	64.2-123	16.8	20	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0215	0.0245	85.9	63.6-132	13.1	20.5	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0225	0.0257	90.1	63.1-131	13.0	20	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0226	0.0248	90.2	67.9-121	9.32	20	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0221	0.0253	88.3	68.6-123	13.8	20	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0212	0.0238	84.8	50.5-144	11.5	21.9	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.153	0.159	122.	22.4-138	3.55	27	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.122	0.130	97.5	10-155	6.36	40	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0207	0.0224	82.9	63.6-128	7.93	20	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0216	0.0246	86.5	65.7-127	12.7	20	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.157	0.163	126.	60.8-140	3.30	25.1	L728012-01	WG749931
Acetone	mg/kg	0.152	0.224	119.	10-130	38.5*	27.9	L728012-01	WG749931
Acrylonitrile	mg/kg	0.158	0.184	126.	49.4-133	15.6	25.3	L728012-01	WG749931
Benzene	mg/kg	0.0215	0.0246	86.1	54.3-133	13.3	20	L728012-01	WG749931
Bromobenzene	mg/kg	0.0211	0.0234	84.4	63.9-124	10.3	20	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0215	0.0246	85.9	63.9-121	13.4	20	L728012-01	WG749931
Bromoform	mg/kg	0.0269	0.0289	108.	59.5-134	7.14	20.8	L728012-01	WG749931
Bromomethane	mg/kg	0.0291	0.0341	116.	41.7-155	15.6	20.5	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0208	0.0232	83.2	55.7-134	10.9	20.3	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0214	0.0241	85.7	67-125	11.9	20	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0233	0.0267	93.3	64.3-125	13.3	20	L728012-01	WG749931
Chloroethane	mg/kg	0.0256	0.0292	102.	51.5-136	13.0	20.8	L728012-01	WG749931
Chloroform	mg/kg	0.0205	0.0232	82.0	63-129	12.5	20	L728012-01	WG749931
Chloromethane	mg/kg	0.0264	0.0299	106.	42.4-135	12.4	20	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0216	0.0248	86.5	59.2-129	13.7	20	L728012-01	WG749931

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Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/kg	0.0236	0.0270	94.2	66.4-125	13.7	20	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0231	0.0342	92.6	56.9-136	38.7*	20	L728012-01	WG749931
Dibromomethane	mg/kg	0.0229	0.0256	91.7	68.2-124	11.0	20	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0221	0.0237	88.4	40.6-144	7.02	20.2	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0215	0.0247	85.8	61.4-133	14.1	20	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0202	0.0227	81.0	55.1-136	11.3	23.6	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0212	0.0244	84.9	66.8-141	13.7	20	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0240	0.0317	96.1	57.7-134	27.6*	20	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0208	0.0283	81.0	58.1-122	30.9*	20	L728012-01	WG749931
n-Butylbenzene	mg/kg	0.0211	0.0253	84.3	62.7-140	18.4	20	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0213	0.0241	85.2	10-176	12.5	26.6	L728012-01	WG749931
Naphthalene	mg/kg	0.0272	0.0286	109.	58-135	4.76	25.5	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0220	0.0249	88.0	63.2-139	12.5	20.4	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0210	0.0236	83.8	62.2-136	11.9	20.3	L728012-01	WG749931
Styrene	mg/kg	0.0231	0.0257	92.2	66.8-133	10.8	20	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0212	0.0242	84.9	63.3-134	13.2	20.3	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0217	0.0258	86.8	53-139	17.0	20	L728012-01	WG749931
Toluene	mg/kg	0.0227	0.0255	90.8	61.4-130	11.6	20	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0197	0.0260	78.7	56.5-129	27.8*	20	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0267	0.0279	107.	64.1-128	4.36	20	L728012-01	WG749931
Trichloroethene	mg/kg	0.0208	0.0249	83.1	44.1-149	18.0	20	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0215	0.0245	85.8	49.6-145	13.3	21.2	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0261	0.0292	104.	47.8-137	11.3	20	L728012-01	WG749931
Xylenes, Total	mg/kg	0.0662	0.0739	88.3	63.3-131	11.0	20	L728012-01	WG749931
4-Bromofluorobenzene				93.70	71-126				WG749931
Dibromofluoromethane				93.00	78.3-121				WG749931
Toluene-d8				101.0	88.5-111				WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0284	0.0252	114.	64-128	12.0	20	L729047-01	WG750199
1,1,1-Trichloroethane	mg/l	0.0273	0.0241	109.	58.7-134	12.7	20	L729047-01	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0324	0.0278	130.	56-132	15.3	22.2	L729047-01	WG750199
1,1,2-Trichloroethane	mg/l	0.0301	0.0266	120.	66.3-125	12.1	20	L729047-01	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0282	0.0242	113.	54.8-154	15.4	22.5	L729047-01	WG750199
1,1-Dichloroethane	mg/l	0.0286	0.0247	114.	58.5-132	14.6	20	L729047-01	WG750199
1,1-Dichloroethene	mg/l	0.0264	0.0234	106.	51.1-140	12.2	20.2	L729047-01	WG750199
1,1-Dichloropropene	mg/l	0.0275	0.0243	110.	57.3-136	12.4	20	L729047-01	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0285	0.0242	114.	59.1-138	16.5	23.7	L729047-01	WG750199
1,2,3-Trichloropropane	mg/l	0.0320	0.0280	128.	61.4-128	13.4	22.4	L729047-01	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0280	0.0242	112.	61.3-122	14.2	20	L729047-01	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0291	0.0252	116.	63.6-143	14.2	21.9	L729047-01	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0292	0.0262	117.	57.4-137	11.0	20	L729047-01	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0343	0.0288	137.*	57.3-136	17.6	27	L729047-01	WG750199
1,2-Dibromoethane	mg/l	0.0293	0.0260	117.	67.1-125	11.8	20	L729047-01	WG750199
1,2-Dichlorobenzene	mg/l	0.0290	0.0253	116.	68.2-123	13.5	20	L729047-01	WG750199
1,2-Dichloroethane	mg/l	0.0285	0.0248	114.	60-126	13.9	20	L729047-01	WG750199
1,2-Dichloropropane	mg/l	0.0295	0.0256	118.	64.2-123	14.4	20	L729047-01	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0293	0.0262	117.	63.6-132	11.3	20.5	L729047-01	WG750199
1,3-Dichlorobenzene	mg/l	0.0300	0.0270	120.	63.1-131	10.7	20	L729047-01	WG750199
1,3-Dichloropropane	mg/l	0.0284	0.0253	114.	67.9-121	11.3	20	L729047-01	WG750199
1,4-Dichlorobenzene	mg/l	0.0284	0.0249	114.	68.6-123	13.4	20	L729047-01	WG750199
2,2-Dichloropropane	mg/l	0.0293	0.0250	117.	50.5-144	15.6	21.9	L729047-01	WG750199
2-Butanone (MEK)	mg/l	0.175	0.146	140.*	22.4-138	18.2	27	L729047-01	WG750199
2-Chloroethyl vinyl ether	mg/l	0.134	0.114	107.	10-155	16.1	20	L729047-01	WG750199
2-Chlorotoluene	mg/l	0.0297	0.0266	119.	63.6-128	11.2	20	L729047-01	WG750199
4-Chlorotoluene	mg/l	0.0302	0.0272	121.	65.7-127	10.5	20	L729047-01	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.165	0.136	132.	60.8-140	19.7	25.1	L729047-01	WG750199
Acrolein	mg/l	0.175	0.146	140.	10-200	17.5	27.7	L729047-01	WG750199
Acrylonitrile	mg/l	0.170	0.141	136.*	49.4-133	19.1	25.3	L729047-01	WG750199

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/l	0.0271	0.0236	108.	54.3-133	13.8	20	L729047-01	WG750199
Bromobenzene	mg/l	0.0282	0.0255	113.	63.9-124	10.3	20	L729047-01	WG750199
Bromodichloromethane	mg/l	0.0293	0.0250	117.	63.9-121	16.1	20	L729047-01	WG750199
Bromoform	mg/l	0.0302	0.0268	121.	59.5-134	11.9	20.5	L729047-01	WG750199
Bromomethane	mg/l	0.0269	0.0230	108.	41.7-155	15.7	21.9	L729047-01	WG750199
Carbon tetrachloride	mg/l	0.0276	0.0237	110.	55.7-134	15.0	20	L729047-01	WG750199
Chlorobenzene	mg/l	0.0283	0.0259	113.	67-125	8.75	20	L729047-01	WG750199
Chlorodibromomethane	mg/l	0.0287	0.0257	115.	64.3-125	11.1	20.8	L729047-01	WG750199
Chloroethane	mg/l	0.0257	0.0218	103.	51.5-136	16.1	40	L729047-01	WG750199
Chloroform	mg/l	0.0283	0.0246	113.	63-129	13.8	20	L729047-01	WG750199
Chloromethane	mg/l	0.0258	0.0214	103.	42.4-135	18.6	20	L729047-01	WG750199
cis-1,2-Dichloroethene	mg/l	0.0275	0.0238	110.	59.2-129	14.3	20	L729047-01	WG750199
cis-1,3-Dichloropropene	mg/l	0.0294	0.0255	117.	66.4-125	14.1	20	L729047-01	WG750199
Di-isopropyl ether	mg/l	0.0276	0.0236	110.	56.9-136	15.8	20	L729047-01	WG750199
Dibromomethane	mg/l	0.0295	0.0258	118.	68.2-124	13.7	20	L729047-01	WG750199
Dichlorodifluoromethane	mg/l	0.0241	0.0204	96.4	40.6-144	16.5	20.2	L729047-01	WG750199
Ethylbenzene	mg/l	0.0280	0.0252	112.	61.4-133	10.6	20	L729047-01	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0256	0.0221	102.	55.1-136	14.5	23.6	L729047-01	WG750199
Isopropylbenzene	mg/l	0.0288	0.0260	115.	66.8-141	10.1	20	L729047-01	WG750199
Methyl tert-butyl ether	mg/l	0.0273	0.0232	109.	57.7-134	16.2	20	L729047-01	WG750199
Methylene Chloride	mg/l	0.0257	0.0223	99.3	58.1-122	14.1	20	L729047-01	WG750199
n-Butylbenzene	mg/l	0.0293	0.0258	117.	62.7-140	12.7	20.3	L729047-01	WG750199
n-Propylbenzene	mg/l	0.0291	0.0262	116.	65.9-131	10.7	20	L729047-01	WG750199
Naphthalene	mg/l	0.0294	0.0249	118.	58-135	16.5	25.5	L729047-01	WG750199
p-Isopropyltoluene	mg/l	0.0299	0.0265	120.	63.2-139	11.9	20.4	L729047-01	WG750199
sec-Butylbenzene	mg/l	0.0294	0.0262	118.	62.2-136	11.6	20.3	L729047-01	WG750199
Styrene	mg/l	0.0294	0.0265	118.	66.8-133	10.6	20	L729047-01	WG750199
tert-Butylbenzene	mg/l	0.0294	0.0261	117.	63.3-134	11.8	21	L729047-01	WG750199
Tetrachloroethene	mg/l	0.0279	0.0257	111.	53-139	8.09	20	L729047-01	WG750199
Toluene	mg/l	0.0277	0.0244	111.	61.4-130	12.8	20	L729047-01	WG750199
trans-1,2-Dichloroethene	mg/l	0.0277	0.0241	111.	56.5-129	13.8	20	L729047-01	WG750199
Trichloroethene	mg/l	0.0284	0.0249	114.	44.1-149	13.5	20	L729047-01	WG750199
Trichlorofluoromethane	mg/l	0.0271	0.0233	108.	49.6-145	15.2	21.2	L729047-01	WG750199
Vinyl chloride	mg/l	0.0274	0.0230	110.	47.8-137	17.6	20	L729047-01	WG750199
Xylenes, Total	mg/l	0.0853	0.0773	114.	63.3-131	9.87	20	L729047-01	WG750199
4-Bromofluorobenzene				101.0	71-126				WG750199
Dibromofluoromethane				95.40	78.3-121				WG750199
Toluene-d8				100.0	88.5-111				WG750199
Acetone	mg/l	0.116	0.113	87.4	10-130	1.98	27.9	L728927-01	WG750188
trans-1,3-Dichloropropene	mg/l	0.0275	0.0285	110.	64.1-128	3.77	20	L728927-01	WG750188
4-Bromofluorobenzene				102.0	71-126				WG750188
Dibromofluoromethane				101.0	78.3-121				WG750188
Toluene-d8				107.0	88.5-111				WG750188

Batch number /Run number / Sample number cross reference

WG749325: R2998643: L728012-02 03 04 05
WG749324: R2998654: L728012-
WG749931: R2999734: L728012-01 02 03 04 05
WG750199: R2999801: L728012-15
WG750188: R2999824: L728012-15

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Seattle, WA 98161

Quality Assurance Report
Level II

L728012

October 23, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

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: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-13-8	Grab	SS	8	10-9-14	1000	4	X	X		-01	
AS-17-8	Grab	SS	8	10-10-14	1000	4	X	X		-02	
AS-23-10	Grab	SS	10	10-10-14	1500	4	X	X		-03	
AS-11-10	Grab	SS	10	10-13-14	1000	4	X	X		-04	
SVE-14-8.5	Grab	SS	8.5	10-13-14	1400	4	X	X		-05	
TRIP BLANK		GW				1			X	-06-13	
		SS				4	X	X			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 6084 7181 1872

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10/15/14	1750	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.4 °C Bottles Received: 21

Date: 10/16/14 Time: 09:00

Hold #

Condition: OK (lab use only) JE3

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L # L728012

Tabl B039

Acctnum: PESENVSWA
Template: T97039
Prelogin: P484992
TSR: 358 - Jarred Willis
PB:

Shipped Via: FedEX Ground

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: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-13-8	Grab	SS	8	10-9-14	1000	4	X	X		-01	
AS-17-8	Grab	SS	8	10-10-14	1000	4	X	X		-02	
AS-23-10	Grab	SS	10	10-10-14	1500	4	X	X		-03	
AS-11-10	Grab	SS	10	10-13-14	1000	4	X	X		-04	
SVE-14-8.5	Grab	SS	8.5	10-13-14	1400	4	X	X		-05	
TRIP BLANK		GW				1			X	-06-13	
		SS				4	X	X			

* Matrix: SS - Soil GW - Groundwater WW - WasteWater DW - Drinking Water OT - Other_____

Remarks: 6084 7181 1872

pH _____ Temp _____

Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10/15/14	1750	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.4 °C Bottles Received: 21

Date: 10/16/14 Time: 09:00

Hold #

Condition: OK (lab use only) JE3

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L # L728012

Tabl B039

Acctnum: PESENVSWA
Template: T97039
Prelogin: P484992
TSR: 358 - Jarred Willis
PB:

Shipped Via: FedEX Ground

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Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Thursday October 23, 2014

Report Number: L728028
Samples Received: 10/16/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By: Jarred Willis

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-10-8FT

Collected By : Chris DeBoen
Collection Date : 10/14/14 09:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	93.9		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	0.069	0.053	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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The reported analytical results relate only to the sample submitted

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-10-8FT

Collected By : Chris DeBoen
Collection Date : 10/14/14 09:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0070	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.0		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	84.9		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/23/14 15:51 Printed: 10/23/14 15:52

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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24-10FT

Collected By : Chris DeBoen
Collection Date : 10/14/14 15:05

ESC Sample # : L728028-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.9		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-24-10FT

Collected By : Chris DeBoen
Collection Date : 10/14/14 15:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0022	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.2		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	89.8		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
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1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-25-10FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 09:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.2		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-25-10FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 09:55

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0020	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	100.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.7		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	91.6		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-15-8FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 13:50

ESC Sample # : L728028-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	94.0		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.053	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.053	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0053	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-15-8FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 13:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0053	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0053	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0024	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0053	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	99.6		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.6		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	89.5		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-16-10FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 17:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	87.0		%	2540 G-2011	10/20/14	1
Volatile Organics						
Acetone	BDL	0.057	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0057	mg/kg	8260C	10/22/14	1
n-Butylbenzene	0.0048	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	0.0028	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0057	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.057	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0057	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0029	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0057	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0057	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	0.0013	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	0.0013	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728028-05

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : SVE-16-10FT

Collected By : Chris DeBoen
Collection Date : 10/15/14 17:10

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.0023	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0057	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	0.0075	0.0057	mg/kg	8260C	10/22/14	1
n-Propylbenzene	0.0057	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0080	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0057	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0057	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0029	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	0.074	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	0.023	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	0.021	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	0.020	0.0034	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	103.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	107.		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	100.		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoen
Collection Date : 10/14/14 00:00

ESC Sample # : L728028-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
Volatile Organics						
Acetone	BDL	50.	ug/l	8260C	10/23/14	1
Acrolein	BDL	50.	ug/l	8260C	10/23/14	1
Acrylonitrile	BDL	10.	ug/l	8260C	10/23/14	1
Benzene	BDL	1.0	ug/l	8260C	10/23/14	1
Bromobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Bromodichloromethane	BDL	1.0	ug/l	8260C	10/23/14	1
Bromoform	BDL	1.0	ug/l	8260C	10/23/14	1
Bromomethane	BDL	5.0	ug/l	8260C	10/23/14	1
n-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
sec-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
tert-Butylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Carbon tetrachloride	BDL	1.0	ug/l	8260C	10/23/14	1
Chlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Chlorodibromomethane	BDL	1.0	ug/l	8260C	10/23/14	1
Chloroethane	BDL	5.0	ug/l	8260C	10/23/14	1
2-Chloroethyl vinyl ether	BDL	50.	ug/l	8260C	10/23/14	1
Chloroform	BDL	5.0	ug/l	8260C	10/23/14	1
Chloromethane	BDL	2.5	ug/l	8260C	10/23/14	1
2-Chlorotoluene	BDL	1.0	ug/l	8260C	10/23/14	1
4-Chlorotoluene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dibromo-3-Chloropropane	BDL	5.0	ug/l	8260C	10/23/14	1
1,2-Dibromoethane	BDL	1.0	ug/l	8260C	10/23/14	1
Dibromomethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,4-Dichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Dichlorodifluoromethane	BDL	5.0	ug/l	8260C	10/23/14	1
1,1-Dichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
cis-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
trans-1,2-Dichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
cis-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
trans-1,3-Dichloropropene	BDL	1.0	ug/l	8260C	10/23/14	1
2,2-Dichloropropane	BDL	1.0	ug/l	8260C	10/23/14	1
Di-isopropyl ether	BDL	1.0	ug/l	8260C	10/23/14	1
Ethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Hexachloro-1,3-butadiene	BDL	1.0	ug/l	8260C	10/23/14	1
Isopropylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
p-Isopropyltoluene	BDL	1.0	ug/l	8260C	10/23/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 16, 2014
Description : MVSC in Normandy Park, WA

Sample ID : TRIP BLANK

Collected By : Chris DeBoen
Collection Date : 10/14/14 00:00

ESC Sample # : L728028-06

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
2-Butanone (MEK)	BDL	10.	ug/l	8260C	10/23/14	1
Methylene Chloride	BDL	5.0	ug/l	8260C	10/23/14	1
4-Methyl-2-pentanone (MIBK)	BDL	10.	ug/l	8260C	10/23/14	1
Methyl tert-butyl ether	BDL	1.0	ug/l	8260C	10/23/14	1
Naphthalene	BDL	5.0	ug/l	8260C	10/23/14	1
n-Propylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Styrene	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,1,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2,2-Tetrachloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2-Trichlorotrifluoroethane	BDL	1.0	ug/l	8260C	10/23/14	1
Tetrachloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
Toluene	BDL	5.0	ug/l	8260C	10/23/14	1
1,2,3-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2,4-Trichlorobenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,1-Trichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
1,1,2-Trichloroethane	BDL	1.0	ug/l	8260C	10/23/14	1
Trichloroethene	BDL	1.0	ug/l	8260C	10/23/14	1
Trichlorofluoromethane	BDL	5.0	ug/l	8260C	10/23/14	1
1,2,3-Trichloropropane	BDL	2.5	ug/l	8260C	10/23/14	1
1,2,4-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,2,3-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
1,3,5-Trimethylbenzene	BDL	1.0	ug/l	8260C	10/23/14	1
Vinyl chloride	BDL	1.0	ug/l	8260C	10/23/14	1
Xylenes, Total	BDL	3.0	ug/l	8260C	10/23/14	1
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/23/14	1
Dibromofluoromethane	95.3		% Rec.	8260C	10/23/14	1
4-Bromofluorobenzene	106.		% Rec.	8260C	10/23/14	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L728028-01	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728028-02	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728028-03	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728028-04	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728028-05	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/23/14 at 15:52:13

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L728028-01 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs
Sample: L728028-02 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs
Sample: L728028-03 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs
Sample: L728028-04 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs
Sample: L728028-05 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs
Sample: L728028-06 Account: PESENVSWA Received: 10/16/14 09:00 Due Date: 10/23/14 00:00 RPT Date: 10/23/14 15:51
full scan VOCs

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728028

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG749332	10/20/14 09:57
Total Solids	< .1	%			WG749428	10/20/14 10:13
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,1-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichloropropane	< .0025	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromoethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,3,5-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,4-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
2,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
2-Butanone (MEK)	< .01	mg/kg			WG749931	10/22/14 19:11
2-Chloroethyl vinyl ether	< .05	mg/kg			WG749931	10/22/14 19:11
2-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG749931	10/22/14 19:11
Acetone	< .05	mg/kg			WG749931	10/22/14 19:11
Acrylonitrile	< .01	mg/kg			WG749931	10/22/14 19:11
Benzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromodichloromethane	< .001	mg/kg			WG749931	10/22/14 19:11
Bromoform	< .001	mg/kg			WG749931	10/22/14 19:11
Bromomethane	< .005	mg/kg			WG749931	10/22/14 19:11
Carbon tetrachloride	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorodibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Chloroethane	< .005	mg/kg			WG749931	10/22/14 19:11
Chloroform	< .005	mg/kg			WG749931	10/22/14 19:11
Chloromethane	< .0025	mg/kg			WG749931	10/22/14 19:11
cis-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
cis-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Di-isopropyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Dibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Dichlorodifluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Ethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Hexachloro-1,3-butadiene	< .001	mg/kg			WG749931	10/22/14 19:11
Isopropylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Methyl tert-butyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Methylene Chloride	< .005	mg/kg			WG749931	10/22/14 19:11
n-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
n-Propylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11

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Quality Assurance Report
Level II

L728028

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Naphthalene	< .005	mg/kg			WG749931	10/22/14 19:11
p-Isopropyltoluene	< .001	mg/kg			WG749931	10/22/14 19:11
sec-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Styrene	< .001	mg/kg			WG749931	10/22/14 19:11
tert-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Tetrachloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Toluene	< .005	mg/kg			WG749931	10/22/14 19:11
trans-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
trans-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichlorofluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Vinyl chloride	< .001	mg/kg			WG749931	10/22/14 19:11
Xylenes, Total	< .003	mg/kg			WG749931	10/22/14 19:11
4-Bromofluorobenzene		% Rec.	92.30	71-126	WG749931	10/22/14 19:11
Dibromofluoromethane		% Rec.	94.40	78.3-121	WG749931	10/22/14 19:11
Toluene-d8		% Rec.	99.50	88.5-111	WG749931	10/22/14 19:11
1,1,1,2-Tetrachloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,1-Trichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2,2-Tetrachloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2-Trichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1,2-Trichlorotrifluoroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
1,1-Dichloropropene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,2,3-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,4-Trichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2,4-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dibromo-3-Chloropropane	< .005	mg/l			WG750199	10/23/14 12:21
1,2-Dibromoethane	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichloroethane	< .001	mg/l			WG750199	10/23/14 12:21
1,2-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,3,5-Trimethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,3-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
1,3-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
1,4-Dichlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
2,2-Dichloropropane	< .001	mg/l			WG750199	10/23/14 12:21
2-Butanone (MEK)	< .01	mg/l			WG750199	10/23/14 12:21
2-Chloroethyl vinyl ether	< .05	mg/l			WG750199	10/23/14 12:21
2-Chlorotoluene	< .001	mg/l			WG750199	10/23/14 12:21
4-Chlorotoluene	< .001	mg/l			WG750199	10/23/14 12:21
4-Methyl-2-pentanone (MIBK)	< .01	mg/l			WG750199	10/23/14 12:21
Acrolein	< .025	mg/l			WG750199	10/23/14 12:21
Acrylonitrile	< .01	mg/l			WG750199	10/23/14 12:21
Benzene	< .001	mg/l			WG750199	10/23/14 12:21
Bromobenzene	< .001	mg/l			WG750199	10/23/14 12:21
Bromodichloromethane	< .001	mg/l			WG750199	10/23/14 12:21
Bromoform	< .001	mg/l			WG750199	10/23/14 12:21
Bromomethane	< .005	mg/l			WG750199	10/23/14 12:21
Carbon tetrachloride	< .001	mg/l			WG750199	10/23/14 12:21
Chlorobenzene	< .001	mg/l			WG750199	10/23/14 12:21
Chlorodibromomethane	< .001	mg/l			WG750199	10/23/14 12:21
Chloroethane	< .005	mg/l			WG750199	10/23/14 12:21
Chloroform	< .005	mg/l			WG750199	10/23/14 12:21
Chloromethane	< .0025	mg/l			WG750199	10/23/14 12:21

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Quality Assurance Report
Level II

L728028

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
cis-1,2-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
cis-1,3-Dichloropropene	< .001	mg/l			WG750199	10/23/14 12:21
Di-isopropyl ether	< .001	mg/l			WG750199	10/23/14 12:21
Dibromomethane	< .001	mg/l			WG750199	10/23/14 12:21
Dichlorodifluoromethane	< .005	mg/l			WG750199	10/23/14 12:21
Ethylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Hexachloro-1,3-butadiene	< .001	mg/l			WG750199	10/23/14 12:21
Isopropylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Methyl tert-butyl ether	< .001	mg/l			WG750199	10/23/14 12:21
Methylene Chloride	< .005	mg/l			WG750199	10/23/14 12:21
n-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
n-Propylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Naphthalene	< .005	mg/l			WG750199	10/23/14 12:21
p-Isopropyltoluene	< .001	mg/l			WG750199	10/23/14 12:21
sec-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Styrene	< .001	mg/l			WG750199	10/23/14 12:21
tert-Butylbenzene	< .001	mg/l			WG750199	10/23/14 12:21
Tetrachloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Toluene	< .005	mg/l			WG750199	10/23/14 12:21
trans-1,2-Dichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Trichloroethene	< .001	mg/l			WG750199	10/23/14 12:21
Trichlorofluoromethane	< .005	mg/l			WG750199	10/23/14 12:21
Vinyl chloride	< .001	mg/l			WG750199	10/23/14 12:21
Xylenes, Total	< .003	mg/l			WG750199	10/23/14 12:21
4-Bromofluorobenzene		% Rec.	102.0	71-126	WG750199	10/23/14 12:21
Dibromofluoromethane		% Rec.	94.00	78.3-121	WG750199	10/23/14 12:21
Toluene-d8		% Rec.	102.0	88.5-111	WG750199	10/23/14 12:21
Acetone	< .05	mg/l			WG750188	10/23/14 12:24
trans-1,3-Dichloropropene	< .001	mg/l			WG750188	10/23/14 12:24
4-Bromofluorobenzene		% Rec.	103.0	71-126	WG750188	10/23/14 12:24
Dibromofluoromethane		% Rec.	101.0	78.3-121	WG750188	10/23/14 12:24
Toluene-d8		% Rec.	108.0	88.5-111	WG750188	10/23/14 12:24

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	75.6	75.3	0.298	5	L728027-04	WG749332
Total Solids	%	81.4	81.4	0.0173	5	L726967-08	WG749428

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG749332
Total Solids	%	50	50.0	100.	85-115	WG749428
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0261	104.	72.9-124	WG749931
1,1,1-Trichloroethane	mg/kg	.025	0.0245	98.2	73.7-124	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0286	115.	69.4-122	WG749931
1,1,2-Trichloroethane	mg/kg	.025	0.0259	104.	79.1-118	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0289	116.	70-146	WG749931
1,1-Dichloroethane	mg/kg	.025	0.0254	102.	75-124	WG749931
1,1-Dichloroethene	mg/kg	.025	0.0280	112.	70.4-129	WG749931

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Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
1,1-Dichloropropene	mg/kg	.025	0.0253	101.	74.9-124	WG749931
1,2,3-Trichlorobenzene	mg/kg	.025	0.0278	111.	69.3-131	WG749931
1,2,3-Trichloropropane	mg/kg	.025	0.0272	109.	71.4-123	WG749931
1,2,3-Trimethylbenzene	mg/kg	.025	0.0253	101.	73.6-113	WG749931
1,2,4-Trichlorobenzene	mg/kg	.025	0.0286	115.	71.9-137	WG749931
1,2,4-Trimethylbenzene	mg/kg	.025	0.0272	109.	75.5-122	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0298	119.	62.8-133	WG749931
1,2-Dibromoethane	mg/kg	.025	0.0265	106.	78.6-120	WG749931
1,2-Dichlorobenzene	mg/kg	.025	0.0260	104.	78.3-118	WG749931
1,2-Dichloroethane	mg/kg	.025	0.0220	88.0	70.1-124	WG749931
1,2-Dichloropropane	mg/kg	.025	0.0285	114.	77.9-119	WG749931
1,3,5-Trimethylbenzene	mg/kg	.025	0.0275	110.	75.9-124	WG749931
1,3-Dichlorobenzene	mg/kg	.025	0.0279	112.	72-126	WG749931
1,3-Dichloropropane	mg/kg	.025	0.0261	104.	79.1-117	WG749931
1,4-Dichlorobenzene	mg/kg	.025	0.0267	107.	78.3-117	WG749931
2,2-Dichloropropane	mg/kg	.025	0.0258	103.	61.3-136	WG749931
2-Butanone (MEK)	mg/kg	.125	0.154	123.	53.7-153	WG749931
2-Chloroethyl vinyl ether	mg/kg	.125	0.128	102.	37.7-157	WG749931
2-Chlorotoluene	mg/kg	.025	0.0255	102.	75.6-121	WG749931
4-Chlorotoluene	mg/kg	.025	0.0272	109.	77.3-120	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.151	121.	70.4-137	WG749931
Acetone	mg/kg	.125	0.186	149.	35.1-175	WG749931
Acrylonitrile	mg/kg	.125	0.154	123.	56.4-128	WG749931
Benzene	mg/kg	.025	0.0264	106.	77.1-121	WG749931
Bromobenzene	mg/kg	.025	0.0255	102.	78.2-115	WG749931
Bromodichloromethane	mg/kg	.025	0.0246	98.6	74.9-115	WG749931
Bromoform	mg/kg	.025	0.0299	120.	65.9-132	WG749931
Bromomethane	mg/kg	.025	0.0393	157.	48.7-165	WG749931
Carbon tetrachloride	mg/kg	.025	0.0253	101.	70-124	WG749931
Chlorobenzene	mg/kg	.025	0.0260	104.	79.1-119	WG749931
Chlorodibromomethane	mg/kg	.025	0.0274	110.	73.5-121	WG749931
Chloroethane	mg/kg	.025	0.0334	134.*	66.2-132	WG749931
Chloroform	mg/kg	.025	0.0242	96.7	76.7-122	WG749931
Chloromethane	mg/kg	.025	0.0368	147.*	63.4-131	WG749931
cis-1,2-Dichloroethene	mg/kg	.025	0.0261	104.	78.2-119	WG749931
cis-1,3-Dichloropropene	mg/kg	.025	0.0275	110.	79.6-120	WG749931
Di-isopropyl ether	mg/kg	.025	0.0275	110.	70.4-133	WG749931
Dibromomethane	mg/kg	.025	0.0258	103.	79.4-120	WG749931
Dichlorodifluoromethane	mg/kg	.025	0.0295	118.	57.1-137	WG749931
Ethylbenzene	mg/kg	.025	0.0276	110.	79.7-122	WG749931
Hexachloro-1,3-butadiene	mg/kg	.025	0.0280	112.	68.2-123	WG749931
Isopropylbenzene	mg/kg	.025	0.0272	109.	80-135	WG749931
Methyl tert-butyl ether	mg/kg	.025	0.0257	103.	73-129	WG749931
Methylene Chloride	mg/kg	.025	0.0278	111.	72.6-120	WG749931
n-Butylbenzene	mg/kg	.025	0.0280	112.	77.5-126	WG749931
n-Propylbenzene	mg/kg	.025	0.0273	109.	77.9-123	WG749931
Naphthalene	mg/kg	.025	0.0296	118.	69.8-128	WG749931
p-Isopropyltoluene	mg/kg	.025	0.0284	114.	75.8-129	WG749931
sec-Butylbenzene	mg/kg	.025	0.0268	107.	75.8-126	WG749931
Styrene	mg/kg	.025	0.0286	115.	82.4-126	WG749931
tert-Butylbenzene	mg/kg	.025	0.0270	108.	76.4-126	WG749931
Tetrachloroethene	mg/kg	.025	0.0292	117.	73.9-125	WG749931
Toluene	mg/kg	.025	0.0273	109.	79.7-118	WG749931
trans-1,2-Dichloroethene	mg/kg	.025	0.0255	102.	73.8-122	WG749931
trans-1,3-Dichloropropene	mg/kg	.025	0.0289	116.	75.9-124	WG749931
Trichloroethene	mg/kg	.025	0.0260	104.	77.9-118	WG749931
Trichlorofluoromethane	mg/kg	.025	0.0280	112.	67.7-131	WG749931
Vinyl chloride	mg/kg	.025	0.0354	142.*	66.7-130	WG749931
Xylenes, Total	mg/kg	.075	0.0820	109.	78.8-121	WG749931

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Analyte	Units	Laboratory Control Sample Known Val	Result	% Rec	Limit	Batch
4-Bromofluorobenzene				95.70	71-126	
Dibromofluoromethane				91.50	78.3-121	
Toluene-d8				100.0	88.5-111	
Acetone	mg/l	.125	0.124	99.5	35.6-163	WG750188
trans-1,3-Dichloropropene	mg/l	.025	0.0268	107.	74.3-123	WG750188
4-Bromofluorobenzene				102.0	71-126	WG750188
Dibromofluoromethane				97.20	78.3-121	WG750188
Toluene-d8				109.0	88.5-111	WG750188

Analyte	Units	Laboratory Control Sample Duplicate Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0259	0.0261	104.	72.9-124	0.690	20	WG749931
1,1,1-Trichloroethane	mg/kg	0.0240	0.0245	96.0	73.7-124	2.21	20	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0282	0.0286	113.	69.4-122	1.40	20	WG749931
1,1,2-Trichloroethane	mg/kg	0.0261	0.0259	104.	79.1-118	0.940	20	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0281	0.0289	112.	70-146	3.03	20	WG749931
1,1-Dichloroethane	mg/kg	0.0242	0.0254	97.0	75-124	4.97	20	WG749931
1,1-Dichloroethene	mg/kg	0.0268	0.0280	107.	70.4-129	4.38	20	WG749931
1,1-Dichloropropene	mg/kg	0.0240	0.0253	96.0	74.9-124	5.37	20	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0266	0.0278	106.	69.3-131	4.61	20	WG749931
1,2,3-Trichloropropane	mg/kg	0.0289	0.0272	115.	71.4-123	5.84	20	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0245	0.0253	98.0	73.6-113	3.17	20	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0278	0.0286	111.	71.9-137	2.90	20	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0267	0.0272	107.	75.5-122	1.72	20	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0294	0.0298	118.	62.8-133	1.31	20	WG749931
1,2-Dibromoethane	mg/kg	0.0266	0.0265	106.	78.6-120	0.280	20	WG749931
1,2-Dichlorobenzene	mg/kg	0.0257	0.0260	103.	78.3-118	1.05	20	WG749931
1,2-Dichloroethane	mg/kg	0.0214	0.0220	86.0	70.1-124	2.55	20	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0285	112.	77.9-119	2.14	20	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0268	0.0275	107.	75.9-124	2.55	20	WG749931
1,3-Dichlorobenzene	mg/kg	0.0277	0.0279	111.	72-126	0.840	20	WG749931
1,3-Dichloropropane	mg/kg	0.0257	0.0261	103.	79.1-117	1.62	20	WG749931
1,4-Dichlorobenzene	mg/kg	0.0260	0.0267	104.	78.3-117	2.78	20	WG749931
2,2-Dichloropropane	mg/kg	0.0242	0.0258	97.0	61.3-136	6.43	20	WG749931
2-Butanone (MEK)	mg/kg	0.162	0.154	130.	53.7-153	5.26	21.2	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.128	104.	37.7-157	1.70	20	WG749931
2-Chlorotoluene	mg/kg	0.0245	0.0255	98.0	75.6-121	3.77	20	WG749931
4-Chlorotoluene	mg/kg	0.0265	0.0272	106.	77.3-120	2.71	20	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.161	0.151	129.	70.4-137	6.45	20	WG749931
Acetone	mg/kg	0.169	0.186	135.	35.1-175	9.85	26.1	WG749931
Acrylonitrile	mg/kg	0.155	0.154	124.	56.4-128	0.380	20	WG749931
Benzene	mg/kg	0.0259	0.0264	104.	77.1-121	2.11	20	WG749931
Bromobenzene	mg/kg	0.0250	0.0255	100.	78.2-115	1.83	20	WG749931
Bromodichloromethane	mg/kg	0.0247	0.0246	99.0	74.9-115	0.0700	20	WG749931
Bromoform	mg/kg	0.0282	0.0299	113.	65.9-132	5.89	20	WG749931
Bromomethane	mg/kg	0.0381	0.0393	152.	48.7-165	3.08	20	WG749931
Carbon tetrachloride	mg/kg	0.0244	0.0253	98.0	70-124	3.68	20	WG749931
Chlorobenzene	mg/kg	0.0257	0.0260	103.	79.1-119	1.24	20	WG749931
Chlorodibromomethane	mg/kg	0.0270	0.0274	108.	73.5-121	1.43	20	WG749931
Chloroethane	mg/kg	0.0320	0.0334	128.	66.2-132	4.35	20	WG749931
Chloroform	mg/kg	0.0234	0.0242	94.0	76.7-122	3.05	20	WG749931
Chloromethane	mg/kg	0.0342	0.0368	137*	63.4-131	7.24	20	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0256	0.0261	102.	78.2-119	1.62	20	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0271	0.0275	108.	79.6-120	1.54	20	WG749931
Di-isopropyl ether	mg/kg	0.0264	0.0275	105.	70.4-133	4.45	20	WG749931
Dibromomethane	mg/kg	0.0259	0.0258	103.	79.4-120	0.380	20	WG749931
Dichlorodifluoromethane	mg/kg	0.0278	0.0295	111.	57.1-137	5.93	20	WG749931
Ethylbenzene	mg/kg	0.0270	0.0276	108.	79.7-122	2.24	20	WG749931

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Est. 1970

PES Environmental, Inc.- WA
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1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	Duplicate RPD	Limit	Batch
Hexachloro-1,3-butadiene	mg/kg	0.0268	0.0280	107.	68.2-123	4.53	20	WG749931
Isopropylbenzene	mg/kg	0.0264	0.0272	105.	80-135	3.06	20	WG749931
Methyl tert-butyl ether	mg/kg	0.0254	0.0257	102.	73-129	1.16	20	WG749931
Methylene Chloride	mg/kg	0.0240	0.0278	96.0	72.6-120	14.8	20	WG749931
n-Butylbenzene	mg/kg	0.0267	0.0280	107.	77.5-126	4.50	20	WG749931
n-Propylbenzene	mg/kg	0.0264	0.0273	105.	77.9-123	3.48	20	WG749931
Naphthalene	mg/kg	0.0293	0.0296	117.	69.8-128	1.12	20	WG749931
p-Isopropyltoluene	mg/kg	0.0276	0.0284	110.	75.8-129	2.78	20	WG749931
sec-Butylbenzene	mg/kg	0.0265	0.0268	106.	75.8-126	1.27	20	WG749931
Styrene	mg/kg	0.0278	0.0286	111.	82.4-126	2.78	20	WG749931
tert-Butylbenzene	mg/kg	0.0265	0.0270	106.	76.4-126	2.13	20	WG749931
Tetrachloroethene	mg/kg	0.0290	0.0292	116.	73.9-125	0.780	20	WG749931
Toluene	mg/kg	0.0268	0.0273	107.	79.7-118	1.99	20	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0235	0.0255	94.0	73.8-122	7.98	20	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0292	0.0289	117.	75.9-124	0.940	20	WG749931
Trichloroethene	mg/kg	0.0270	0.0260	108.	77.9-118	3.58	20	WG749931
Trichlorofluoromethane	mg/kg	0.0269	0.0280	108.	67.7-131	3.71	20	WG749931
Vinyl chloride	mg/kg	0.0336	0.0354	134*	66.7-130	5.40	20	WG749931
Xylenes, Total	mg/kg	0.0807	0.0820	108.	78.8-121	1.57	20	WG749931
4-Bromofluorobenzene				94.40	71-126			WG749931
Dibromofluoromethane				91.00	78.3-121			WG749931
Toluene-d8				102.0	88.5-111			WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0260	0.0259	3*	-	0.260	20	WG750199
1,1,1-Trichloroethane	mg/l	0.0242	0.0246	2*	-	1.95	20	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0266	0.0269	3*	-	1.26	20	WG750199
1,1,2-Trichloroethane	mg/l	0.0270	0.0266	3*	-	1.66	20	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0245	2*	-	1.41	20	WG750199
1,1-Dichloroethane	mg/l	0.0247	0.0251	2*	-	1.45	20	WG750199
1,1-Dichloroethene	mg/l	0.0233	0.0235	2*	-	1.10	20	WG750199
1,1-Dichloropropene	mg/l	0.0248	0.0253	2*	-	2.15	20	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0263	0.0255	3*	-	2.90	20	WG750199
1,2,3-Trichloropropane	mg/l	0.0263	0.0260	3*	-	1.01	20	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0257	0.0250	2*	-	2.47	20	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0263	0.0264	3*	-	0.370	20	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0277	0.0273	3*	-	1.42	20	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0249	0.0247	2*	-	0.610	20	WG750199
1,2-Dibromoethane	mg/l	0.0261	0.0261	3*	-	0.300	20	WG750199
1,2-Dichlorobenzene	mg/l	0.0258	0.0258	2*	-	0.0600	20	WG750199
1,2-Dichloroethane	mg/l	0.0247	0.0251	2*	-	1.91	20	WG750199
1,2-Dichloropropane	mg/l	0.0259	0.0264	2*	-	1.81	20	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0279	0.0273	3*	-	2.32	20	WG750199
1,3-Dichlorobenzene	mg/l	0.0279	0.0280	3*	-	0.0800	20	WG750199
1,3-Dichloropropane	mg/l	0.0261	0.0255	3*	-	2.32	20	WG750199
1,4-Dichlorobenzene	mg/l	0.0255	0.0254	2*	-	0.190	20	WG750199
2,2-Dichloropropane	mg/l	0.0242	0.0249	2*	-	2.91	20	WG750199
2-Butanone (MEK)	mg/l	0.129	0.134	13*	-	3.96	20	WG750199
2-Chloroethyl vinyl ether	mg/l	0.119	0.122	12*	-	2.07	20	WG750199
2-Chlorotoluene	mg/l	0.0276	0.0273	3*	-	1.05	20	WG750199
4-Chlorotoluene	mg/l	0.0280	0.0275	3*	-	2.06	20	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.121	0.128	12*	-	5.80	20	WG750199
Acrolein	mg/l	0.124	0.131	12*	-	5.15	28.1	WG750199
Acrylonitrile	mg/l	0.118	0.124	12*	-	5.09	20	WG750199
Benzene	mg/l	0.0242	0.0246	2*	-	1.36	20	WG750199
Bromobenzene	mg/l	0.0264	0.0263	3*	-	0.530	20	WG750199
Bromodichloromethane	mg/l	0.0253	0.0258	2*	-	1.81	20	WG750199
Bromoform	mg/l	0.0263	0.0258	3*	-	1.88	20	WG750199
Bromomethane	mg/l	0.0247	0.0252	2*	-	1.93	20	WG750199

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Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
Carbon tetrachloride	mg/l	0.0243	0.0248	2*	-	1.96	20	WG750199
Chlorobenzene	mg/l	0.0268	0.0261	3*	-	2.61	20	WG750199
Chlorodibromomethane	mg/l	0.0263	0.0258	3*	-	1.90	20	WG750199
Chloroethane	mg/l	0.0225	0.0223	2*	-	0.910	20	WG750199
Chloroform	mg/l	0.0244	0.0250	2*	-	2.75	20	WG750199
Chloromethane	mg/l	0.0240	0.0242	2*	-	0.820	20	WG750199
cis-1,2-Dichloroethene	mg/l	0.0240	0.0243	2*	-	1.14	20	WG750199
cis-1,3-Dichloropropene	mg/l	0.0259	0.0262	2*	-	1.19	20	WG750199
Di-isopropyl ether	mg/l	0.0242	0.0247	2*	-	1.79	20	WG750199
Dibromomethane	mg/l	0.0249	0.0259	2*	-	3.66	20	WG750199
Dichlorodifluoromethane	mg/l	0.0239	0.0244	2*	-	2.05	20	WG750199
Ethylbenzene	mg/l	0.0270	0.0265	3*	-	2.03	20	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0259	0.0248	2*	-	4.06	20	WG750199
Isopropylbenzene	mg/l	0.0272	0.0268	3*	-	1.59	20	WG750199
Methyl tert-butyl ether	mg/l	0.0230	0.0243	2*	-	5.62	20	WG750199
Methylene Chloride	mg/l	0.0223	0.0228	2*	-	2.11	20	WG750199
n-Butylbenzene	mg/l	0.0269	0.0268	3*	-	0.310	20	WG750199
n-Propylbenzene	mg/l	0.0273	0.0272	3*	-	0.480	20	WG750199
Naphthalene	mg/l	0.0242	0.0241	2*	-	0.280	20	WG750199
p-Isopropyltoluene	mg/l	0.0281	0.0277	3*	-	1.28	20	WG750199
sec-Butylbenzene	mg/l	0.0278	0.0275	3*	-	1.25	20	WG750199
Styrene	mg/l	0.0272	0.0271	3*	-	0.330	20	WG750199
tert-Butylbenzene	mg/l	0.0275	0.0270	3*	-	1.82	20	WG750199
Tetrachloroethene	mg/l	0.0269	0.0262	3*	-	2.76	20	WG750199
Toluene	mg/l	0.0255	0.0253	2*	-	0.630	20	WG750199
trans-1,2-Dichloroethene	mg/l	0.0242	0.0248	2*	-	2.20	20	WG750199
Trichloroethene	mg/l	0.0251	0.0255	2*	-	1.42	20	WG750199
Trichlorofluoromethane	mg/l	0.0243	0.0241	2*	-	0.630	20	WG750199
Vinyl chloride	mg/l	0.0251	0.0253	2*	-	0.630	20	WG750199
Xylenes, Total	mg/l	0.0812	0.0800	8*	-	1.44	20	WG750199
4-Bromofluorobenzene				106.0	71-126			WG750199
Dibromofluoromethane				93.90	78.3-121			WG750199
Toluene-d8				102.0	88.5-111			WG750199
Acetone	mg/l	0.126	0.124	100.	35.6-163	0.980	23.9	WG750188
trans-1,3-Dichloropropene	mg/l	0.0264	0.0268	106.	74.3-123	1.24	20	WG750188
4-Bromofluorobenzene				102.0	71-126			WG750188
Dibromofluoromethane				98.30	78.3-121			WG750188
Toluene-d8				107.0	88.5-111			WG750188

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0241	0.0	.025	97.0	64-128	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0230	0.0	.025	92.0	58.7-134	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0285	0.0	.025	110.	56-132	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0262	0.0	.025	100.	66.3-125	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0259	0.0	.025	100.	54.8-154	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0279	0.0	.025	110.	58.5-132	L728012-01	WG749931
1,1-Dichloroethene	mg/kg	0.0246	0.0	.025	98.0	51.1-140	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0218	0.0	.025	87.0	57.3-136	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0272	0.0	.025	110.	59.1-138	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0288	0.0	.025	120.	61.4-128	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0241	0.0	.025	96.0	61.3-122	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0270	0.0	.025	110.	63.6-143	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0246	0.0	.025	99.0	57.4-137	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0327	0.0	.025	130.	57.3-136	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0252	0.0	.025	100.	67.1-125	L728012-01	WG749931

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Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,2-Dichlorobenzene	mg/kg	0.0252	0.0	.025	100.	68.2-123	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0213	0.0	.025	85.0	60-126	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0	.025	110.	64.2-123	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0245	0.0	.025	98.0	63.6-132	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0257	0.0	.025	100.	63.1-131	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0248	0.0	.025	99.0	67.9-121	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0253	0.0	.025	100.	68.6-123	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0238	0.0	.025	95.0	50.5-144	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.159	0.0	.125	130.	22.4-138	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.0	.125	100.	10-155	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0224	0.0	.025	90.0	63.6-128	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0246	0.0	.025	98.0	65.7-127	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.163	0.0	.125	130.	60.8-140	L728012-01	WG749931
Acetone	mg/kg	0.224	0.00268	.125	180.*	10-130	L728012-01	WG749931
Acrylonitrile	mg/kg	0.184	0.0	.125	150.*	49.4-133	L728012-01	WG749931
Benzene	mg/kg	0.0246	0.0	.025	98.0	54.3-133	L728012-01	WG749931
Bromobenzene	mg/kg	0.0234	0.0	.025	94.0	63.9-124	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0246	0.0	.025	98.0	63.9-121	L728012-01	WG749931
Bromoform	mg/kg	0.0289	0.0	.025	120.	59.5-134	L728012-01	WG749931
Bromomethane	mg/kg	0.0341	0.0	.025	140.	41.7-155	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0232	0.0	.025	93.0	55.7-134	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0241	0.0	.025	96.0	67-125	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0267	0.0	.025	110.	64.3-125	L728012-01	WG749931
Chloroethane	mg/kg	0.0292	0.0	.025	120.	51.5-136	L728012-01	WG749931
Chloroform	mg/kg	0.0232	0.0	.025	93.0	63-129	L728012-01	WG749931
Chloromethane	mg/kg	0.0299	0.0	.025	120.	42.4-135	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0248	0.0	.025	99.0	59.2-129	L728012-01	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0270	0.0	.025	110.	66.4-125	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0342	0.0	.025	140.*	56.9-136	L728012-01	WG749931
Dibromomethane	mg/kg	0.0256	0.0	.025	100.	68.2-124	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0237	0.0	.025	95.0	40.6-144	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0247	0.0	.025	99.0	61.4-133	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0227	0.0	.025	91.0	55.1-136	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0244	0.0	.025	97.0	66.8-141	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0317	0.0	.025	130.	57.7-134	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0283	0.000499	.025	110.	58.1-122	L728012-01	WG749931
n-Butylbenzene	mg/kg	0.0253	0.0	.025	100.	62.7-140	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0241	0.0	.025	96.0	10-176	L728012-01	WG749931
Naphthalene	mg/kg	0.0286	0.0	.025	110.	58-135	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0249	0.0	.025	100.	63.2-139	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0236	0.0	.025	94.0	62.2-136	L728012-01	WG749931
Styrene	mg/kg	0.0257	0.0	.025	100.	66.8-133	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0242	0.0	.025	97.0	63.3-134	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0258	0.0	.025	100.	53-139	L728012-01	WG749931
Toluene	mg/kg	0.0255	0.0	.025	100.	61.4-130	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0	.025	100.	56.5-129	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0279	0.0	.025	110.	64.1-128	L728012-01	WG749931
Trichloroethene	mg/kg	0.0249	0.0	.025	100.	44.1-149	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0245	0.0	.025	98.0	49.6-145	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0292	0.0	.025	120.	47.8-137	L728012-01	WG749931
Xylenes, Total	mg/kg	0.0739	0.0	.075	99.0	63.3-131	L728012-01	WG749931
4-Bromofluorobenzene					91.00	71-126		WG749931
Dibromofluoromethane					92.40	78.3-121		WG749931
Toluene-d8					100.0	88.5-111		WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0252	0.0	.025	100.	64-128	L729047-01	WG750199
1,1,1-Trichloroethane	mg/l	0.0241	0.0	.025	96.0	58.7-134	L729047-01	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0278	0.0	.025	110.	56-132	L729047-01	WG750199

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Seattle, WA 98161

Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,2-Trichloroethane	mg/l	0.0266	0.0	.025	110.	66.3-125	L729047-01	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0242	0.0	.025	97.0	54.8-154	L729047-01	WG750199
1,1-Dichloroethane	mg/l	0.0247	0.0	.025	99.0	58.5-132	L729047-01	WG750199
1,1-Dichloroethene	mg/l	0.0234	0.0	.025	94.0	51.1-140	L729047-01	WG750199
1,1-Dichloropropene	mg/l	0.0243	0.0	.025	97.0	57.3-136	L729047-01	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0242	0.0	.025	97.0	59.1-138	L729047-01	WG750199
1,2,3-Trichloropropane	mg/l	0.0280	0.0	.025	110.	61.4-128	L729047-01	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0242	0.0	.025	97.0	61.3-122	L729047-01	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0252	0.0	.025	100.	63.6-143	L729047-01	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	57.4-137	L729047-01	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0288	0.0	.025	120.	57.3-136	L729047-01	WG750199
1,2-Dibromoethane	mg/l	0.0260	0.0	.025	100.	67.1-125	L729047-01	WG750199
1,2-Dichlorobenzene	mg/l	0.0253	0.0	.025	100.	68.2-123	L729047-01	WG750199
1,2-Dichloroethane	mg/l	0.0248	0.0	.025	99.0	60-126	L729047-01	WG750199
1,2-Dichloropropane	mg/l	0.0256	0.0	.025	100.	64.2-123	L729047-01	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0262	0.0	.025	100.	63.6-132	L729047-01	WG750199
1,3-Dichlorobenzene	mg/l	0.0270	0.0	.025	110.	63.1-131	L729047-01	WG750199
1,3-Dichloropropane	mg/l	0.0253	0.0	.025	100.	67.9-121	L729047-01	WG750199
1,4-Dichlorobenzene	mg/l	0.0249	0.0	.025	99.0	68.6-123	L729047-01	WG750199
2,2-Dichloropropane	mg/l	0.0250	0.0	.025	100.	50.5-144	L729047-01	WG750199
2-Butanone (MEK)	mg/l	0.146	0.0	.125	120.	22.4-138	L729047-01	WG750199
2-Chloroethyl vinyl ether	mg/l	0.114	0.0	.125	91.0	10-155	L729047-01	WG750199
2-Chlorotoluene	mg/l	0.0266	0.0	.025	110.	63.6-128	L729047-01	WG750199
4-Chlorotoluene	mg/l	0.0272	0.0	.025	110.	65.7-127	L729047-01	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.136	0.0	.125	110.	60.8-140	L729047-01	WG750199
Acrolein	mg/l	0.146	0.0	.125	120.	10-200	L729047-01	WG750199
Acrylonitrile	mg/l	0.141	0.0	.125	110.	49.4-133	L729047-01	WG750199
Benzene	mg/l	0.0236	0.0	.025	94.0	54.3-133	L729047-01	WG750199
Bromobenzene	mg/l	0.0255	0.0	.025	100.	63.9-124	L729047-01	WG750199
Bromodichloromethane	mg/l	0.0250	0.0	.025	100.	63.9-121	L729047-01	WG750199
Bromoform	mg/l	0.0268	0.0	.025	110.	59.5-134	L729047-01	WG750199
Bromomethane	mg/l	0.0230	0.0	.025	92.0	41.7-155	L729047-01	WG750199
Carbon tetrachloride	mg/l	0.0237	0.0	.025	95.0	55.7-134	L729047-01	WG750199
Chlorobenzene	mg/l	0.0259	0.0	.025	100.	67-125	L729047-01	WG750199
Chlorodibromomethane	mg/l	0.0257	0.0	.025	100.	64.3-125	L729047-01	WG750199
Chloroethane	mg/l	0.0218	0.0	.025	87.0	51.5-136	L729047-01	WG750199
Chloroform	mg/l	0.0246	0.0	.025	98.0	63-129	L729047-01	WG750199
Chloromethane	mg/l	0.0214	0.0	.025	86.0	42.4-135	L729047-01	WG750199
cis-1,2-Dichloroethene	mg/l	0.0238	0.0	.025	95.0	59.2-129	L729047-01	WG750199
cis-1,3-Dichloropropene	mg/l	0.0255	0.0	.025	100.	66.4-125	L729047-01	WG750199
Di-isopropyl ether	mg/l	0.0236	0.0	.025	94.0	56.9-136	L729047-01	WG750199
Dibromomethane	mg/l	0.0258	0.0	.025	100.	68.2-124	L729047-01	WG750199
Dichlorodifluoromethane	mg/l	0.0204	0.0	.025	82.0	40.6-144	L729047-01	WG750199
Ethylbenzene	mg/l	0.0252	0.0	.025	100.	61.4-133	L729047-01	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0221	0.0	.025	88.0	55.1-136	L729047-01	WG750199
Isopropylbenzene	mg/l	0.0260	0.0	.025	100.	66.8-141	L729047-01	WG750199
Methyl tert-butyl ether	mg/l	0.0232	0.0	.025	93.0	57.7-134	L729047-01	WG750199
Methylene Chloride	mg/l	0.0223	0.000863	.025	86.0	58.1-122	L729047-01	WG750199
n-Butylbenzene	mg/l	0.0258	0.0	.025	100.	62.7-140	L729047-01	WG750199
n-Propylbenzene	mg/l	0.0262	0.0	.025	100.	65.9-131	L729047-01	WG750199
Naphthalene	mg/l	0.0249	0.0	.025	100.	58-135	L729047-01	WG750199
p-Isopropyltoluene	mg/l	0.0265	0.0	.025	110.	63.2-139	L729047-01	WG750199
sec-Butylbenzene	mg/l	0.0262	0.0	.025	100.	62.2-136	L729047-01	WG750199
Styrene	mg/l	0.0265	0.0	.025	110.	66.8-133	L729047-01	WG750199
tert-Butylbenzene	mg/l	0.0261	0.0	.025	100.	63.3-134	L729047-01	WG750199
Tetrachloroethene	mg/l	0.0257	0.0	.025	100.	53-139	L729047-01	WG750199
Toluene	mg/l	0.0244	0.0	.025	97.0	61.4-130	L729047-01	WG750199
trans-1,2-Dichloroethene	mg/l	0.0241	0.0	.025	96.0	56.5-129	L729047-01	WG750199
Trichloroethene	mg/l	0.0249	0.0	.025	99.0	44.1-149	L729047-01	WG750199

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Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Trichlorofluoromethane	mg/l	0.0233	0.0	.025	93.0	49.6-145	L729047-01	WG750199
Vinyl chloride	mg/l	0.0230	0.0	.025	92.0	47.8-137	L729047-01	WG750199
Xylenes, Total	mg/l	0.0773	0.0	.075	100.	63.3-131	L729047-01	WG750199
4-Bromofluorobenzene					105.0	71-126		WG750199
Dibromofluoromethane					96.00	78.3-121		WG750199
Toluene-d8					101.0	88.5-111		WG750199
Acetone	mg/l	0.113	0.00643	.125	86.0	10-130	L728927-01	WG750188
trans-1,3-Dichloropropene	mg/l	0.0285	0.0	.025	110.	64.1-128	L728927-01	WG750188
4-Bromofluorobenzene					102.0	71-126		WG750188
Dibromofluoromethane					101.0	78.3-121		WG750188
Toluene-d8					108.0	88.5-111		WG750188

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0213	0.0241	85.3	64-128	12.4	20	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0204	0.0230	81.5	58.7-134	12.2	20	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0278	0.0285	111.	56-132	2.26	22.2	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0240	0.0262	96.0	66.3-125	8.80	20	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0226	0.0259	90.4	54.8-154	13.8	22.5	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0208	0.0279	83.2	58.5-132	29.1*	20	L728012-01	WG749931
1,1-Dichloroethene	mg/kg	0.0219	0.0246	87.4	51.1-140	11.8	20.2	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0193	0.0218	77.2	57.3-136	12.3	20	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0240	0.0272	95.9	59.1-138	12.6	23.7	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0273	0.0288	109.	61.4-128	5.57	22.4	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0208	0.0241	83.3	61.3-122	14.7	20	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0235	0.0270	94.0	63.6-143	14.1	21.9	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0217	0.0246	86.8	57.4-137	12.7	20	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0295	0.0327	118.	57.3-136	10.3	27	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0239	0.0252	95.6	67.1-125	5.31	20	L728012-01	WG749931
1,2-Dichlorobenzene	mg/kg	0.0218	0.0252	87.2	68.2-123	14.5	20	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0192	0.0213	76.6	60-126	10.5	20	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0236	0.0279	94.2	64.2-123	16.8	20	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0215	0.0245	85.9	63.6-132	13.1	20.5	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0225	0.0257	90.1	63.1-131	13.0	20	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0226	0.0248	90.2	67.9-121	9.32	20	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0221	0.0253	88.3	68.6-123	13.8	20	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0212	0.0238	84.8	50.5-144	11.5	21.9	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.153	0.159	122.	22.4-138	3.55	27	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.122	0.130	97.5	10-155	6.36	40	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0207	0.0224	82.9	63.6-128	7.93	20	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0216	0.0246	86.5	65.7-127	12.7	20	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.157	0.163	126.	60.8-140	3.30	25.1	L728012-01	WG749931
Acetone	mg/kg	0.152	0.224	119.	10-130	38.5*	27.9	L728012-01	WG749931
Acrylonitrile	mg/kg	0.158	0.184	126.	49.4-133	15.6	25.3	L728012-01	WG749931
Benzene	mg/kg	0.0215	0.0246	86.1	54.3-133	13.3	20	L728012-01	WG749931
Bromobenzene	mg/kg	0.0211	0.0234	84.4	63.9-124	10.3	20	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0215	0.0246	85.9	63.9-121	13.4	20	L728012-01	WG749931
Bromoform	mg/kg	0.0269	0.0289	108.	59.5-134	7.14	20.8	L728012-01	WG749931
Bromomethane	mg/kg	0.0291	0.0341	116.	41.7-155	15.6	20.5	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0208	0.0232	83.2	55.7-134	10.9	20.3	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0214	0.0241	85.7	67-125	11.9	20	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0233	0.0267	93.3	64.3-125	13.3	20	L728012-01	WG749931
Chloroethane	mg/kg	0.0256	0.0292	102.	51.5-136	13.0	20.8	L728012-01	WG749931
Chloroform	mg/kg	0.0205	0.0232	82.0	63-129	12.5	20	L728012-01	WG749931
Chloromethane	mg/kg	0.0264	0.0299	106.	42.4-135	12.4	20	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0216	0.0248	86.5	59.2-129	13.7	20	L728012-01	WG749931

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Level II

L728028

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Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
cis-1,3-Dichloropropene	mg/kg	0.0236	0.0270	94.2	66.4-125	13.7	20	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0231	0.0342	92.6	56.9-136	38.7*	20	L728012-01	WG749931
Dibromomethane	mg/kg	0.0229	0.0256	91.7	68.2-124	11.0	20	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0221	0.0237	88.4	40.6-144	7.02	20.2	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0215	0.0247	85.8	61.4-133	14.1	20	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0202	0.0227	81.0	55.1-136	11.3	23.6	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0212	0.0244	84.9	66.8-141	13.7	20	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0240	0.0317	96.1	57.7-134	27.6*	20	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0208	0.0283	81.0	58.1-122	30.9*	20	L728012-01	WG749931
n-Butylbenzene	mg/kg	0.0211	0.0253	84.3	62.7-140	18.4	20	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0213	0.0241	85.2	10-176	12.5	26.6	L728012-01	WG749931
Naphthalene	mg/kg	0.0272	0.0286	109.	58-135	4.76	25.5	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0220	0.0249	88.0	63.2-139	12.5	20.4	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0210	0.0236	83.8	62.2-136	11.9	20.3	L728012-01	WG749931
Styrene	mg/kg	0.0231	0.0257	92.2	66.8-133	10.8	20	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0212	0.0242	84.9	63.3-134	13.2	20.3	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0217	0.0258	86.8	53-139	17.0	20	L728012-01	WG749931
Toluene	mg/kg	0.0227	0.0255	90.8	61.4-130	11.6	20	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0197	0.0260	78.7	56.5-129	27.8*	20	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0267	0.0279	107.	64.1-128	4.36	20	L728012-01	WG749931
Trichloroethene	mg/kg	0.0208	0.0249	83.1	44.1-149	18.0	20	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0215	0.0245	85.8	49.6-145	13.3	21.2	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0261	0.0292	104.	47.8-137	11.3	20	L728012-01	WG749931
Xylenes, Total	mg/kg	0.0662	0.0739	88.3	63.3-131	11.0	20	L728012-01	WG749931
4-Bromofluorobenzene				93.70	71-126				WG749931
Dibromofluoromethane				93.00	78.3-121				WG749931
Toluene-d8				101.0	88.5-111				WG749931
1,1,1,2-Tetrachloroethane	mg/l	0.0284	0.0252	114.	64-128	12.0	20	L729047-01	WG750199
1,1,1-Trichloroethane	mg/l	0.0273	0.0241	109.	58.7-134	12.7	20	L729047-01	WG750199
1,1,2,2-Tetrachloroethane	mg/l	0.0324	0.0278	130.	56-132	15.3	22.2	L729047-01	WG750199
1,1,2-Trichloroethane	mg/l	0.0301	0.0266	120.	66.3-125	12.1	20	L729047-01	WG750199
1,1,2-Trichlorotrifluoroethane	mg/l	0.0282	0.0242	113.	54.8-154	15.4	22.5	L729047-01	WG750199
1,1-Dichloroethane	mg/l	0.0286	0.0247	114.	58.5-132	14.6	20	L729047-01	WG750199
1,1-Dichloroethene	mg/l	0.0264	0.0234	106.	51.1-140	12.2	20.2	L729047-01	WG750199
1,1-Dichloropropene	mg/l	0.0275	0.0243	110.	57.3-136	12.4	20	L729047-01	WG750199
1,2,3-Trichlorobenzene	mg/l	0.0285	0.0242	114.	59.1-138	16.5	23.7	L729047-01	WG750199
1,2,3-Trichloropropane	mg/l	0.0320	0.0280	128.	61.4-128	13.4	22.4	L729047-01	WG750199
1,2,3-Trimethylbenzene	mg/l	0.0280	0.0242	112.	61.3-122	14.2	20	L729047-01	WG750199
1,2,4-Trichlorobenzene	mg/l	0.0291	0.0252	116.	63.6-143	14.2	21.9	L729047-01	WG750199
1,2,4-Trimethylbenzene	mg/l	0.0292	0.0262	117.	57.4-137	11.0	20	L729047-01	WG750199
1,2-Dibromo-3-Chloropropane	mg/l	0.0343	0.0288	137.*	57.3-136	17.6	27	L729047-01	WG750199
1,2-Dibromoethane	mg/l	0.0293	0.0260	117.	67.1-125	11.8	20	L729047-01	WG750199
1,2-Dichlorobenzene	mg/l	0.0290	0.0253	116.	68.2-123	13.5	20	L729047-01	WG750199
1,2-Dichloroethane	mg/l	0.0285	0.0248	114.	60-126	13.9	20	L729047-01	WG750199
1,2-Dichloropropane	mg/l	0.0295	0.0256	118.	64.2-123	14.4	20	L729047-01	WG750199
1,3,5-Trimethylbenzene	mg/l	0.0293	0.0262	117.	63.6-132	11.3	20.5	L729047-01	WG750199
1,3-Dichlorobenzene	mg/l	0.0300	0.0270	120.	63.1-131	10.7	20	L729047-01	WG750199
1,3-Dichloropropane	mg/l	0.0284	0.0253	114.	67.9-121	11.3	20	L729047-01	WG750199
1,4-Dichlorobenzene	mg/l	0.0284	0.0249	114.	68.6-123	13.4	20	L729047-01	WG750199
2,2-Dichloropropane	mg/l	0.0293	0.0250	117.	50.5-144	15.6	21.9	L729047-01	WG750199
2-Butanone (MEK)	mg/l	0.175	0.146	140.*	22.4-138	18.2	27	L729047-01	WG750199
2-Chloroethyl vinyl ether	mg/l	0.134	0.114	107.	10-155	16.1	20	L729047-01	WG750199
2-Chlorotoluene	mg/l	0.0297	0.0266	119.	63.6-128	11.2	20	L729047-01	WG750199
4-Chlorotoluene	mg/l	0.0302	0.0272	121.	65.7-127	10.5	20	L729047-01	WG750199
4-Methyl-2-pentanone (MIBK)	mg/l	0.165	0.136	132.	60.8-140	19.7	25.1	L729047-01	WG750199
Acrolein	mg/l	0.175	0.146	140.	10-200	17.5	27.7	L729047-01	WG750199
Acrylonitrile	mg/l	0.170	0.141	136.*	49.4-133	19.1	25.3	L729047-01	WG750199

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728028

October 23, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
Benzene	mg/l	0.0271	0.0236	108.	54.3-133	13.8	20	L729047-01	WG750199
Bromobenzene	mg/l	0.0282	0.0255	113.	63.9-124	10.3	20	L729047-01	WG750199
Bromodichloromethane	mg/l	0.0293	0.0250	117.	63.9-121	16.1	20	L729047-01	WG750199
Bromoform	mg/l	0.0302	0.0268	121.	59.5-134	11.9	20.5	L729047-01	WG750199
Bromomethane	mg/l	0.0269	0.0230	108.	41.7-155	15.7	21.9	L729047-01	WG750199
Carbon tetrachloride	mg/l	0.0276	0.0237	110.	55.7-134	15.0	20	L729047-01	WG750199
Chlorobenzene	mg/l	0.0283	0.0259	113.	67-125	8.75	20	L729047-01	WG750199
Chlorodibromomethane	mg/l	0.0287	0.0257	115.	64.3-125	11.1	20.8	L729047-01	WG750199
Chloroethane	mg/l	0.0257	0.0218	103.	51.5-136	16.1	40	L729047-01	WG750199
Chloroform	mg/l	0.0283	0.0246	113.	63-129	13.8	20	L729047-01	WG750199
Chloromethane	mg/l	0.0258	0.0214	103.	42.4-135	18.6	20	L729047-01	WG750199
cis-1,2-Dichloroethene	mg/l	0.0275	0.0238	110.	59.2-129	14.3	20	L729047-01	WG750199
cis-1,3-Dichloropropene	mg/l	0.0294	0.0255	117.	66.4-125	14.1	20	L729047-01	WG750199
Di-isopropyl ether	mg/l	0.0276	0.0236	110.	56.9-136	15.8	20	L729047-01	WG750199
Dibromomethane	mg/l	0.0295	0.0258	118.	68.2-124	13.7	20	L729047-01	WG750199
Dichlorodifluoromethane	mg/l	0.0241	0.0204	96.4	40.6-144	16.5	20.2	L729047-01	WG750199
Ethylbenzene	mg/l	0.0280	0.0252	112.	61.4-133	10.6	20	L729047-01	WG750199
Hexachloro-1,3-butadiene	mg/l	0.0256	0.0221	102.	55.1-136	14.5	23.6	L729047-01	WG750199
Isopropylbenzene	mg/l	0.0288	0.0260	115.	66.8-141	10.1	20	L729047-01	WG750199
Methyl tert-butyl ether	mg/l	0.0273	0.0232	109.	57.7-134	16.2	20	L729047-01	WG750199
Methylene Chloride	mg/l	0.0257	0.0223	99.3	58.1-122	14.1	20	L729047-01	WG750199
n-Butylbenzene	mg/l	0.0293	0.0258	117.	62.7-140	12.7	20.3	L729047-01	WG750199
n-Propylbenzene	mg/l	0.0291	0.0262	116.	65.9-131	10.7	20	L729047-01	WG750199
Naphthalene	mg/l	0.0294	0.0249	118.	58-135	16.5	25.5	L729047-01	WG750199
p-Isopropyltoluene	mg/l	0.0299	0.0265	120.	63.2-139	11.9	20.4	L729047-01	WG750199
sec-Butylbenzene	mg/l	0.0294	0.0262	118.	62.2-136	11.6	20.3	L729047-01	WG750199
Styrene	mg/l	0.0294	0.0265	118.	66.8-133	10.6	20	L729047-01	WG750199
tert-Butylbenzene	mg/l	0.0294	0.0261	117.	63.3-134	11.8	21	L729047-01	WG750199
Tetrachloroethene	mg/l	0.0279	0.0257	111.	53-139	8.09	20	L729047-01	WG750199
Toluene	mg/l	0.0277	0.0244	111.	61.4-130	12.8	20	L729047-01	WG750199
trans-1,2-Dichloroethene	mg/l	0.0277	0.0241	111.	56.5-129	13.8	20	L729047-01	WG750199
Trichloroethene	mg/l	0.0284	0.0249	114.	44.1-149	13.5	20	L729047-01	WG750199
Trichlorofluoromethane	mg/l	0.0271	0.0233	108.	49.6-145	15.2	21.2	L729047-01	WG750199
Vinyl chloride	mg/l	0.0274	0.0230	110.	47.8-137	17.6	20	L729047-01	WG750199
Xylenes, Total	mg/l	0.0853	0.0773	114.	63.3-131	9.87	20	L729047-01	WG750199
4-Bromofluorobenzene				101.0	71-126				WG750199
Dibromofluoromethane				95.40	78.3-121				WG750199
Toluene-d8				100.0	88.5-111				WG750199
Acetone	mg/l	0.116	0.113	87.4	10-130	1.98	27.9	L728927-01	WG750188
trans-1,3-Dichloropropene	mg/l	0.0275	0.0285	110.	64.1-128	3.77	20	L728927-01	WG750188
4-Bromofluorobenzene				102.0	71-126				WG750188
Dibromofluoromethane				101.0	78.3-121				WG750188
Toluene-d8				107.0	88.5-111				WG750188

Batch number /Run number / Sample number cross reference

WG749332: R2998679: L728028-01 02 03
WG749428: R2998686: L728028-04 05
WG749931: R2999734: L728028-01 02 03 04 05
WG750199: R2999801: L728028-06
WG750188: R2999824: L728028-06

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728028

October 23, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental
1215 Fourth Ave.
Suite 1350
Seattle, WA. 98161

Billing Information:

Report to: Matt Dahl

Email to: mdahl@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Washington

Phone: 206-529-3980
FAX:

Client Project #: 1358.001.01.005

ESC Key:

Collected by: Chris DeBoer

Site/Facility ID#: Normandy Park WA

P.O.#:

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:

Email? __No __Yes

FAX? __No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Full-scan VOC's by 8260 = 5035 Terracore Kit	TS/VOC Screen 40g Cln - NaPres	V8260 40ml/MeOH NaHSO4/5vf	V8260 - Trip Blank IC 40ml Amb - HCl-BK	Remarks/Contaminant	Sample # (lab only)
AS-10-8	Grab	SS	8	10/14/14	0950	4		X	X			L728028-01
AS-24-10	Grab	SS	10	10/14/14	1505	4		X	X			-02
AS-25-10	Grab	SS	10	10/15/14	0955	4		X	X			-03
SVE-15-8	Grab	SS	8	10/15/14	1350	4		X	X			-04
SVE-16-10	Grab	SS	10	10/15/14	1710	4		X	X			-05
TRIP BLANK		GW				1				X		-06

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: 4355 9308 7259

Flow _____ Other _____

Chain of Custody
Page 1 of 1

ESC
L-A-B S-C-I-E-N-C-E-S
12065 Lebanon Road
Mt. Juliet, TN 37122
Phone: (800) 767-5859
Phone: (615) 758-5858
Fax: (615) 758-5859
F191

CoCode PENENVSW (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10/15/14	1750	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.2 | Bottles Received: 21

Date: 10/16/14 | Time: 0900

Condition: (lab use only) (82) NB

CoC Seals Intact: ___ Y ___ N ___ NA

pH Checked: | NCF:

PES Environmental
1215 Fourth Ave.
Suite 1350
Seattle, WA. 98161

Billing Information:

Report to: Matt Dahl

Email to: mdahl@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Washington

Phone: 206-529-3980
FAX:

Client Project #: 1358.001.01.005

ESC Key:

Collected by: Chris DeBoer

Site/Facility ID#: Normandy Park WA

P.O.#:

Collected by (signature): Chris DeBoer

Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day.....200%
___ Next Day.....100%
___ Two Day.....50%
___ Three Day.....25%

Date Results Needed:

Email? __No __Yes

FAX? __No __Yes

Analysis/Container/Preservative

Sample ID	Comp/Grab	Matrix*	Depth	Date	Time	No. of Cntrs	Full-scan VOC's by 8260 = 5035 Terracore Kit	TS/VOC Screen 40g Cln - NaPres	V8260 40ml/MeOH NaHSO4/5vf	V8260 - Trip Blank IC 40ml Amb - HCl-BK	Remarks/Contaminant	Sample # (lab only)
AS-10-8	Grab	SS	8	10/14/14	0950	4		X	X			L728028-01
AS-24-10	Grab	SS	10	10/14/14	1505	4		X	X			-02
AS-25-10	Grab	SS	10	10/15/14	0955	4		X	X			-03
SVE-15-8	Grab	SS	8	10/15/14	1350	4		X	X			-04
SVE-16-10	Grab	SS	10	10/15/14	1710	4		X	X			-05
TRIP BLANK		GW				1				X		-06

*Matrix: **SS** - Soil/Solid **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

pH _____ Temp _____

Remarks: 4355 9308 7259

Flow _____ Other _____

Chain of Custody
Page 1 of 1

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Phone: (615) 758-5858
Fax: (615) 758-5859
F191

CoCode PENENVSW (lab use only)
Template/Prelogin
Shipped Via:

Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10/15/14	1750	
Relinquished by: (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by: (Signature)	Date:	Time:	Received for lab by: (Signature)

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 2.2 | Bottles Received: 21

Date: 10/16/14 | Time: 0900

Condition: (lab use only) (82) NB

CoC Seals Intact: ___ Y ___ N ___ NA

pH Checked: | NCF:

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Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

Report Summary

Thursday October 23, 2014

Report Number: L728392
Samples Received: 10/18/14
Client Project: 1358.001.01.005

Description: MVSC in Normandy Park, WA

The analytical results in this report are based upon information supplied by you, the client, and are for your exclusive use. If you have any questions regarding this data package, please do not hesitate to call.

Entire Report Reviewed By:

Jarred Willis , ESC Representative

Laboratory Certification Numbers

A2LA - 1461-01, AIHA - 100789, AL - 40660, CA - 01157CA, CT - PH-0197, FL - E87487, GA - 923, IN - C-TN-01, KY - 90010, KYUST - 0016, NC - ENV375/DW21704/BIO041, ND - R-140. NJ - TN002, NJ NELAP - TN002, SC - 84004, TN - 2006, VA - 460132, WV - 233, AZ - 0612, MN - 047-999-395, NY - 11742, WI - 998093910, NV - TN000032011-1, TX - T104704245-11-3, OK - 9915, PA - 68-02979, IA Lab #364, EPA - TN002

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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728392-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26-10 FT

Collected By : Chris DeBoer
Collection Date : 10/16/14 10:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	91.0		%	2540 G-2011	10/22/14	1
Volatile Organics						
Acetone	BDL	0.055	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0011	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0055	mg/kg	8260C	10/22/14	1
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0055	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.055	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0055	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0027	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0055	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0055	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728392-01

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-26-10 FT

Collected By : Chris DeBoer
Collection Date : 10/16/14 10:05

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0055	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/22/14	1
Naphthalene	BDL	0.0055	mg/kg	8260C	10/22/14	1
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.0067	0.0011	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0055	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0055	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/22/14	1
Xylenes, Total	BDL	0.0033	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	106.		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	90.5		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
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1215 Fourth Ave., Suite 1350
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October 23,2014

ESC Sample # : L728392-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-9-25 FT

Collected By : Chris DeBoer
Collection Date : 10/16/14 14:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	95.4		%	2540 G-2011	10/22/14	1
Volatile Organics						
Acetone	BDL	0.052	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
n-Butylbenzene	0.0034	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	0.0014	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.052	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0052	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728392-02

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-9-25 FT

Collected By : Chris DeBoer
Collection Date : 10/16/14 14:45

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.0012	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0052	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	0.0088	0.0052	mg/kg	8260C	10/22/14	1
n-Propylbenzene	0.0029	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.012	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0052	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	0.042	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	0.016	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	0.010	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	0.0078	0.0031	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	104.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	105.		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	81.2		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
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October 23,2014

ESC Sample # : L728392-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-8-25 FT

Collected By : Chris DeBoer
Collection Date : 10/17/14 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.3		%	2540 G-2011	10/22/14	1
Volatile Organics						
Acetone	BDL	0.051	mg/kg	8260C	10/22/14	1
Acrylonitrile	BDL	0.010	mg/kg	8260C	10/22/14	1
Benzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromodichloromethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromoform	BDL	0.0010	mg/kg	8260C	10/22/14	1
Bromomethane	BDL	0.0051	mg/kg	8260C	10/22/14	1
n-Butylbenzene	0.0036	0.0010	mg/kg	8260C	10/22/14	1
sec-Butylbenzene	0.0020	0.0010	mg/kg	8260C	10/22/14	1
tert-Butylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Carbon tetrachloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chlorodibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Chloroethane	BDL	0.0051	mg/kg	8260C	10/22/14	1
2-Chloroethyl vinyl ether	BDL	0.051	mg/kg	8260C	10/22/14	1
Chloroform	BDL	0.0051	mg/kg	8260C	10/22/14	1
Chloromethane	BDL	0.0026	mg/kg	8260C	10/22/14	1
2-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
4-Chlorotoluene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dibromo-3-Chloropropane	BDL	0.0051	mg/kg	8260C	10/22/14	1
1,2-Dibromoethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dibromomethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,4-Dichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Dichlorodifluoromethane	BDL	0.0051	mg/kg	8260C	10/22/14	1
1,1-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,2-Dichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
cis-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
trans-1,3-Dichloropropene	BDL	0.0010	mg/kg	8260C	10/22/14	1
2,2-Dichloropropane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Di-isopropyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Ethylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Hexachloro-1,3-butadiene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Isopropylbenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

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PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
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October 23,2014

ESC Sample # : L728392-03

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-8-25 FT

Collected By : Chris DeBoer
Collection Date : 10/17/14 09:00

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	0.0016	0.0010	mg/kg	8260C	10/22/14	1
2-Butanone (MEK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methylene Chloride	BDL	0.0051	mg/kg	8260C	10/22/14	1
4-Methyl-2-pentanone (MIBK)	BDL	0.010	mg/kg	8260C	10/22/14	1
Methyl tert-butyl ether	BDL	0.0010	mg/kg	8260C	10/22/14	1
Naphthalene	0.0064	0.0051	mg/kg	8260C	10/22/14	1
n-Propylbenzene	0.0041	0.0010	mg/kg	8260C	10/22/14	1
Styrene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2,2-Tetrachloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichlorotrifluoroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Tetrachloroethene	0.029	0.0010	mg/kg	8260C	10/22/14	1
Toluene	BDL	0.0051	mg/kg	8260C	10/22/14	1
1,2,3-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,2,4-Trichlorobenzene	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,1-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,1,2-Trichloroethane	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichloroethene	BDL	0.0010	mg/kg	8260C	10/22/14	1
Trichlorofluoromethane	BDL	0.0051	mg/kg	8260C	10/22/14	1
1,2,3-Trichloropropane	BDL	0.0026	mg/kg	8260C	10/22/14	1
1,2,4-Trimethylbenzene	0.047	0.0010	mg/kg	8260C	10/22/14	1
1,2,3-Trimethylbenzene	0.014	0.0010	mg/kg	8260C	10/22/14	1
Vinyl chloride	BDL	0.0010	mg/kg	8260C	10/22/14	1
1,3,5-Trimethylbenzene	0.013	0.0010	mg/kg	8260C	10/22/14	1
Xylenes, Total	0.011	0.0031	mg/kg	8260C	10/22/14	1
Surrogate Recovery						
Toluene-d8	102.		% Rec.	8260C	10/22/14	1
Dibromofluoromethane	94.6		% Rec.	8260C	10/22/14	1
4-Bromofluorobenzene	98.2		% Rec.	8260C	10/22/14	1

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 10/23/14 13:19 Printed: 10/23/14 13:19

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Tax I.D. 62-0814289

Est. 1970

REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

ESC Sample # : L728392-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-27-8 FT

Collected By : Chris DeBoer
Collection Date : 10/17/14 11:50

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
Total Solids	97.6		%	2540 G-2011	10/22/14	1
Volatile Organics						
Acetone	BDL	0.054	mg/kg	8260C	10/23/14	1.06
Acrylonitrile	BDL	0.011	mg/kg	8260C	10/23/14	1.06
Benzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Bromobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Bromodichloromethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Bromoform	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Bromomethane	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
n-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
sec-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
tert-Butylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Carbon tetrachloride	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Chlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Chlorodibromomethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Chloroethane	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
2-Chloroethyl vinyl ether	BDL	0.054	mg/kg	8260C	10/23/14	1.06
Chloroform	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
Chloromethane	BDL	0.0027	mg/kg	8260C	10/23/14	1.06
2-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
4-Chlorotoluene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2-Dibromo-3-Chloropropane	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
1,2-Dibromoethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Dibromomethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,3-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,4-Dichlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Dichlorodifluoromethane	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
1,1-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2-Dichloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
cis-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
trans-1,2-Dichloroethene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,3-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
cis-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
trans-1,3-Dichloropropene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
2,2-Dichloropropane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Di-isopropyl ether	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Ethylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Hexachloro-1,3-butadiene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Isopropylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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REPORT OF ANALYSIS

Matt Dahl
PES Environmental, Inc.- WA
1215 Fourth Ave., Suite 1350
Seattle, WA 98161

October 23,2014

Date Received : October 18, 2014
Description : MVSC in Normandy Park, WA

Sample ID : AS-27-8 FT

Collected By : Chris DeBoer
Collection Date : 10/17/14 11:50

ESC Sample # : L728392-04

Site ID : NORMADY PARK, WA

Project # : 1358.001.01.005

Parameter	Dry Result	Det. Limit	Units	Method	Date	Dil.
p-Isopropyltoluene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
2-Butanone (MEK)	BDL	0.011	mg/kg	8260C	10/23/14	1.06
Methylene Chloride	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
4-Methyl-2-pentanone (MIBK)	BDL	0.011	mg/kg	8260C	10/23/14	1.06
Methyl tert-butyl ether	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Naphthalene	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
n-Propylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Styrene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1,1,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1,2,2-Tetrachloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1,2-Trichlorotrifluoroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Tetrachloroethene	0.015	0.0011	mg/kg	8260C	10/23/14	1.06
Toluene	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
1,2,3-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2,4-Trichlorobenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1,1-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,1,2-Trichloroethane	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Trichloroethene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Trichlorofluoromethane	BDL	0.0054	mg/kg	8260C	10/23/14	1.06
1,2,3-Trichloropropane	BDL	0.0027	mg/kg	8260C	10/23/14	1.06
1,2,4-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,2,3-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Vinyl chloride	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
1,3,5-Trimethylbenzene	BDL	0.0011	mg/kg	8260C	10/23/14	1.06
Xylenes, Total	BDL	0.0032	mg/kg	8260C	10/23/14	1.06
Surrogate Recovery						
Toluene-d8	101.		% Rec.	8260C	10/23/14	1.06
Dibromofluoromethane	94.9		% Rec.	8260C	10/23/14	1.06
4-Bromofluorobenzene	91.9		% Rec.	8260C	10/23/14	1.06

Results listed are dry weight basis.
BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
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Attachment A
List of Analytes with QC Qualifiers

Sample Number	Work Group	Sample Type	Analyte	Run ID	Qualifier
L728392-01	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728392-02	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728392-03	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4
L728392-04	WG749931	SAMP	Chloroethane	R2999734	J4
	WG749931	SAMP	Chloromethane	R2999734	J4
	WG749931	SAMP	Vinyl chloride	R2999734	J4

Attachment B
Explanation of QC Qualifier Codes

Qualifier	Meaning
J4	The associated batch QC was outside the established quality control range for accuracy.

Qualifier Report Information

ESC utilizes sample and result qualifiers as set forth by the EPA Contract Laboratory Program and as required by most certifying bodies including NELAC. In addition to the EPA qualifiers adopted by ESC, we have implemented ESC qualifiers to provide more information pertaining to our analytical results. Each qualifier is designated in the qualifier explanation as either EPA or ESC. Data qualifiers are intended to provide the ESC client with more detailed information concerning the potential bias of reported data. Because of the wide range of constituents and variety of matrices incorporated by most EPA methods,it is common for some compounds to fall outside of established ranges. These exceptions are evaluated and all reported data is valid and useable "unless qualified as 'R' (Rejected)."

Definitions

Accuracy - The relationship of the observed value of a known sample to the true value of a known sample. Represented by percent recovery and relevant to samples such as: control samples, matrix spike recoveries, surrogate recoveries, etc.

Precision - The agreement between a set of samples or between duplicate samples. Relates to how close together the results are and is represented by Relative Percent Differrence.

Surrogate - Organic compounds that are similar in chemical composition, extraction, and chromotography to analytes of interest. The surrogates are used to determine the probable response of the group of analytes that are chemically related to the surrogate compound. Surrogates are added to the sample and carried through all stages of preparation and analyses.

TIC - Tentatively Identified Compound: Compounds detected in samples that are not target compounds, internal standards, system monitoring compounds, or surrogates.

Summary of Remarks For Samples Printed
10/23/14 at 13:19:49

TSR Signing Reports: 358
R5 - Desired TAT

Sample: L728392-01 Account: PESENVSWA Received: 10/18/14 09:00 Due Date: 10/24/14 00:00 RPT Date: 10/23/14 13:19

Sample: L728392-02 Account: PESENVSWA Received: 10/18/14 09:00 Due Date: 10/24/14 00:00 RPT Date: 10/23/14 13:19

Sample: L728392-03 Account: PESENVSWA Received: 10/18/14 09:00 Due Date: 10/24/14 00:00 RPT Date: 10/23/14 13:19

Sample: L728392-04 Account: PESENVSWA Received: 10/18/14 09:00 Due Date: 10/24/14 00:00 RPT Date: 10/23/14 13:19

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Quality Assurance Report
Level II

L728392

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Total Solids	< .1	%			WG749772	10/22/14 07:09
1,1,1,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,1-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2,2-Tetrachloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1,2-Trichlorotrifluoroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
1,1-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trichloropropane	< .0025	mg/kg			WG749931	10/22/14 19:11
1,2,3-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2,4-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromo-3-Chloropropane	< .005	mg/kg			WG749931	10/22/14 19:11
1,2-Dibromoethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloroethane	< .001	mg/kg			WG749931	10/22/14 19:11
1,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,3,5-Trimethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
1,3-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
1,4-Dichlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
2,2-Dichloropropane	< .001	mg/kg			WG749931	10/22/14 19:11
2-Butanone (MEK)	< .01	mg/kg			WG749931	10/22/14 19:11
2-Chloroethyl vinyl ether	< .05	mg/kg			WG749931	10/22/14 19:11
2-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Chlorotoluene	< .001	mg/kg			WG749931	10/22/14 19:11
4-Methyl-2-pentanone (MIBK)	< .01	mg/kg			WG749931	10/22/14 19:11
Acetone	< .05	mg/kg			WG749931	10/22/14 19:11
Acrylonitrile	< .01	mg/kg			WG749931	10/22/14 19:11
Benzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Bromodichloromethane	< .001	mg/kg			WG749931	10/22/14 19:11
Bromoform	< .001	mg/kg			WG749931	10/22/14 19:11
Bromomethane	< .005	mg/kg			WG749931	10/22/14 19:11
Carbon tetrachloride	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorobenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Chlorodibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Chloroethane	< .005	mg/kg			WG749931	10/22/14 19:11
Chloroform	< .005	mg/kg			WG749931	10/22/14 19:11
Chloromethane	< .0025	mg/kg			WG749931	10/22/14 19:11
cis-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
cis-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Di-isopropyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Dibromomethane	< .001	mg/kg			WG749931	10/22/14 19:11
Dichlorodifluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Ethylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Hexachloro-1,3-butadiene	< .001	mg/kg			WG749931	10/22/14 19:11
Isopropylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Methyl tert-butyl ether	< .001	mg/kg			WG749931	10/22/14 19:11
Methylene Chloride	< .005	mg/kg			WG749931	10/22/14 19:11
n-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
n-Propylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Naphthalene	< .005	mg/kg			WG749931	10/22/14 19:11
p-Isopropyltoluene	< .001	mg/kg			WG749931	10/22/14 19:11
sec-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L728392

October 23, 2014

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
Styrene	< .001	mg/kg			WG749931	10/22/14 19:11
tert-Butylbenzene	< .001	mg/kg			WG749931	10/22/14 19:11
Tetrachloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Toluene	< .005	mg/kg			WG749931	10/22/14 19:11
trans-1,2-Dichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
trans-1,3-Dichloropropene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichloroethene	< .001	mg/kg			WG749931	10/22/14 19:11
Trichlorofluoromethane	< .005	mg/kg			WG749931	10/22/14 19:11
Vinyl chloride	< .001	mg/kg			WG749931	10/22/14 19:11
Xylenes, Total	< .003	mg/kg			WG749931	10/22/14 19:11
4-Bromofluorobenzene		% Rec.	92.30	71-126	WG749931	10/22/14 19:11
Dibromofluoromethane		% Rec.	94.40	78.3-121	WG749931	10/22/14 19:11
Toluene-d8		% Rec.	99.50	88.5-111	WG749931	10/22/14 19:11

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
Total Solids	%	94.3	94.6	0.241	5	L728400-06	WG749772

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Total Solids	%	50	50.0	100.	85-115	WG749772
1,1,1,2-Tetrachloroethane	mg/kg	.025	0.0261	104.	72.9-124	WG749931
1,1,1-Trichloroethane	mg/kg	.025	0.0245	98.2	73.7-124	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	.025	0.0286	115.	69.4-122	WG749931
1,1,2-Trichloroethane	mg/kg	.025	0.0259	104.	79.1-118	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	.025	0.0289	116.	70-146	WG749931
1,1-Dichloroethane	mg/kg	.025	0.0254	102.	75-124	WG749931
1,1-Dichloroethene	mg/kg	.025	0.0280	112.	70.4-129	WG749931
1,1-Dichloropropene	mg/kg	.025	0.0253	101.	74.9-124	WG749931
1,2,3-Trichlorobenzene	mg/kg	.025	0.0278	111.	69.3-131	WG749931
1,2,3-Trichloropropane	mg/kg	.025	0.0272	109.	71.4-123	WG749931
1,2,3-Trimethylbenzene	mg/kg	.025	0.0253	101.	73.6-113	WG749931
1,2,4-Trichlorobenzene	mg/kg	.025	0.0286	115.	71.9-137	WG749931
1,2,4-Trimethylbenzene	mg/kg	.025	0.0272	109.	75.5-122	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	.025	0.0298	119.	62.8-133	WG749931
1,2-Dibromoethane	mg/kg	.025	0.0265	106.	78.6-120	WG749931
1,2-Dichlorobenzene	mg/kg	.025	0.0260	104.	78.3-118	WG749931
1,2-Dichloroethane	mg/kg	.025	0.0220	88.0	70.1-124	WG749931
1,2-Dichloropropane	mg/kg	.025	0.0285	114.	77.9-119	WG749931
1,3,5-Trimethylbenzene	mg/kg	.025	0.0275	110.	75.9-124	WG749931
1,3-Dichlorobenzene	mg/kg	.025	0.0279	112.	72-126	WG749931
1,3-Dichloropropane	mg/kg	.025	0.0261	104.	79.1-117	WG749931
1,4-Dichlorobenzene	mg/kg	.025	0.0267	107.	78.3-117	WG749931
2,2-Dichloropropane	mg/kg	.025	0.0258	103.	61.3-136	WG749931
2-Butanone (MEK)	mg/kg	.125	0.154	123.	53.7-153	WG749931
2-Chloroethyl vinyl ether	mg/kg	.125	0.128	102.	37.7-157	WG749931
2-Chlorotoluene	mg/kg	.025	0.0255	102.	75.6-121	WG749931
4-Chlorotoluene	mg/kg	.025	0.0272	109.	77.3-120	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	.125	0.151	121.	70.4-137	WG749931
Acetone	mg/kg	.125	0.186	149.	35.1-175	WG749931
Acrylonitrile	mg/kg	.125	0.154	123.	56.4-128	WG749931
Benzene	mg/kg	.025	0.0264	106.	77.1-121	WG749931
Bromobenzene	mg/kg	.025	0.0255	102.	78.2-115	WG749931
Bromodichloromethane	mg/kg	.025	0.0246	98.6	74.9-115	WG749931
Bromoform	mg/kg	.025	0.0299	120.	65.9-132	WG749931

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Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728392

October 23, 2014

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
Bromomethane	mg/kg	.025	0.0393	157.	48.7-165	WG749931
Carbon tetrachloride	mg/kg	.025	0.0253	101.	70-124	WG749931
Chlorobenzene	mg/kg	.025	0.0260	104.	79.1-119	WG749931
Chlorodibromomethane	mg/kg	.025	0.0274	110.	73.5-121	WG749931
Chloroethane	mg/kg	.025	0.0334	134.*	66.2-132	WG749931
Chloroform	mg/kg	.025	0.0242	96.7	76.7-122	WG749931
Chloromethane	mg/kg	.025	0.0368	147.*	63.4-131	WG749931
cis-1,2-Dichloroethene	mg/kg	.025	0.0261	104.	78.2-119	WG749931
cis-1,3-Dichloropropene	mg/kg	.025	0.0275	110.	79.6-120	WG749931
Di-isopropyl ether	mg/kg	.025	0.0275	110.	70.4-133	WG749931
Dibromomethane	mg/kg	.025	0.0258	103.	79.4-120	WG749931
Dichlorodifluoromethane	mg/kg	.025	0.0295	118.	57.1-137	WG749931
Ethylbenzene	mg/kg	.025	0.0276	110.	79.7-122	WG749931
Hexachloro-1,3-butadiene	mg/kg	.025	0.0280	112.	68.2-123	WG749931
Isopropylbenzene	mg/kg	.025	0.0272	109.	80-135	WG749931
Methyl tert-butyl ether	mg/kg	.025	0.0257	103.	73-129	WG749931
Methylene Chloride	mg/kg	.025	0.0278	111.	72.6-120	WG749931
n-Butylbenzene	mg/kg	.025	0.0280	112.	77.5-126	WG749931
n-Propylbenzene	mg/kg	.025	0.0273	109.	77.9-123	WG749931
Naphthalene	mg/kg	.025	0.0296	118.	69.8-128	WG749931
p-Isopropyltoluene	mg/kg	.025	0.0284	114.	75.8-129	WG749931
sec-Butylbenzene	mg/kg	.025	0.0268	107.	75.8-126	WG749931
Styrene	mg/kg	.025	0.0286	115.	82.4-126	WG749931
tert-Butylbenzene	mg/kg	.025	0.0270	108.	76.4-126	WG749931
Tetrachloroethene	mg/kg	.025	0.0292	117.	73.9-125	WG749931
Toluene	mg/kg	.025	0.0273	109.	79.7-118	WG749931
trans-1,2-Dichloroethene	mg/kg	.025	0.0255	102.	73.8-122	WG749931
trans-1,3-Dichloropropene	mg/kg	.025	0.0289	116.	75.9-124	WG749931
Trichloroethene	mg/kg	.025	0.0260	104.	77.9-118	WG749931
Trichlorofluoromethane	mg/kg	.025	0.0280	112.	67.7-131	WG749931
Vinyl chloride	mg/kg	.025	0.0354	142.*	66.7-130	WG749931
Xylenes, Total	mg/kg	.075	0.0820	109.	78.8-121	WG749931
4-Bromofluorobenzene				95.70	71-126	WG749931
Dibromofluoromethane				91.50	78.3-121	WG749931
Toluene-d8				100.0	88.5-111	WG749931

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0259	0.0261	104.	72.9-124	0.690	20	WG749931
1,1,1-Trichloroethane	mg/kg	0.0240	0.0245	96.0	73.7-124	2.21	20	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0282	0.0286	113.	69.4-122	1.40	20	WG749931
1,1,2-Trichloroethane	mg/kg	0.0261	0.0259	104.	79.1-118	0.940	20	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0281	0.0289	112.	70-146	3.03	20	WG749931
1,1-Dichloroethane	mg/kg	0.0242	0.0254	97.0	75-124	4.97	20	WG749931
1,1-Dichloroethene	mg/kg	0.0268	0.0280	107.	70.4-129	4.38	20	WG749931
1,1-Dichloropropene	mg/kg	0.0240	0.0253	96.0	74.9-124	5.37	20	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0266	0.0278	106.	69.3-131	4.61	20	WG749931
1,2,3-Trichloropropane	mg/kg	0.0289	0.0272	115.	71.4-123	5.84	20	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0245	0.0253	98.0	73.6-113	3.17	20	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0278	0.0286	111.	71.9-137	2.90	20	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0267	0.0272	107.	75.5-122	1.72	20	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0294	0.0298	118.	62.8-133	1.31	20	WG749931
1,2-Dibromoethane	mg/kg	0.0266	0.0265	106.	78.6-120	0.280	20	WG749931
1,2-Dichlorobenzene	mg/kg	0.0257	0.0260	103.	78.3-118	1.05	20	WG749931
1,2-Dichloroethane	mg/kg	0.0214	0.0220	86.0	70.1-124	2.55	20	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0285	112.	77.9-119	2.14	20	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0268	0.0275	107.	75.9-124	2.55	20	WG749931
1,3-Dichlorobenzene	mg/kg	0.0277	0.0279	111.	72-126	0.840	20	WG749931

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Quality Assurance Report
Level II

L728392

October 23, 2014

Analyte	Units	Laboratory Control Sample Result	Ref	%Rec	Limit	RPD	Limit	Batch
1,3-Dichloropropane	mg/kg	0.0257	0.0261	103.	79.1-117	1.62	20	WG749931
1,4-Dichlorobenzene	mg/kg	0.0260	0.0267	104.	78.3-117	2.78	20	WG749931
2,2-Dichloropropane	mg/kg	0.0242	0.0258	97.0	61.3-136	6.43	20	WG749931
2-Butanone (MEK)	mg/kg	0.162	0.154	130.	53.7-153	5.26	21.2	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.128	104.	37.7-157	1.70	20	WG749931
2-Chlorotoluene	mg/kg	0.0245	0.0255	98.0	75.6-121	3.77	20	WG749931
4-Chlorotoluene	mg/kg	0.0265	0.0272	106.	77.3-120	2.71	20	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.161	0.151	129.	70.4-137	6.45	20	WG749931
Acetone	mg/kg	0.169	0.186	135.	35.1-175	9.85	26.1	WG749931
Acrylonitrile	mg/kg	0.155	0.154	124.	56.4-128	0.380	20	WG749931
Benzene	mg/kg	0.0259	0.0264	104.	77.1-121	2.11	20	WG749931
Bromobenzene	mg/kg	0.0250	0.0255	100.	78.2-115	1.83	20	WG749931
Bromodichloromethane	mg/kg	0.0247	0.0246	99.0	74.9-115	0.0700	20	WG749931
Bromoform	mg/kg	0.0282	0.0299	113.	65.9-132	5.89	20	WG749931
Bromomethane	mg/kg	0.0381	0.0393	152.	48.7-165	3.08	20	WG749931
Carbon tetrachloride	mg/kg	0.0244	0.0253	98.0	70-124	3.68	20	WG749931
Chlorobenzene	mg/kg	0.0257	0.0260	103.	79.1-119	1.24	20	WG749931
Chlorodibromomethane	mg/kg	0.0270	0.0274	108.	73.5-121	1.43	20	WG749931
Chloroethane	mg/kg	0.0320	0.0334	128.	66.2-132	4.35	20	WG749931
Chloroform	mg/kg	0.0234	0.0242	94.0	76.7-122	3.05	20	WG749931
Chloromethane	mg/kg	0.0342	0.0368	137*	63.4-131	7.24	20	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0256	0.0261	102.	78.2-119	1.62	20	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0271	0.0275	108.	79.6-120	1.54	20	WG749931
Di-isopropyl ether	mg/kg	0.0264	0.0275	105.	70.4-133	4.45	20	WG749931
Dibromomethane	mg/kg	0.0259	0.0258	103.	79.4-120	0.380	20	WG749931
Dichlorodifluoromethane	mg/kg	0.0278	0.0295	111.	57.1-137	5.93	20	WG749931
Ethylbenzene	mg/kg	0.0270	0.0276	108.	79.7-122	2.24	20	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0268	0.0280	107.	68.2-123	4.53	20	WG749931
Isopropylbenzene	mg/kg	0.0264	0.0272	105.	80-135	3.06	20	WG749931
Methyl tert-butyl ether	mg/kg	0.0254	0.0257	102.	73-129	1.16	20	WG749931
Methylene Chloride	mg/kg	0.0240	0.0278	96.0	72.6-120	14.8	20	WG749931
n-Butylbenzene	mg/kg	0.0267	0.0280	107.	77.5-126	4.50	20	WG749931
n-Propylbenzene	mg/kg	0.0264	0.0273	105.	77.9-123	3.48	20	WG749931
Naphthalene	mg/kg	0.0293	0.0296	117.	69.8-128	1.12	20	WG749931
p-Isopropyltoluene	mg/kg	0.0276	0.0284	110.	75.8-129	2.78	20	WG749931
sec-Butylbenzene	mg/kg	0.0265	0.0268	106.	75.8-126	1.27	20	WG749931
Styrene	mg/kg	0.0278	0.0286	111.	82.4-126	2.78	20	WG749931
tert-Butylbenzene	mg/kg	0.0265	0.0270	106.	76.4-126	2.13	20	WG749931
Tetrachloroethene	mg/kg	0.0290	0.0292	116.	73.9-125	0.780	20	WG749931
Toluene	mg/kg	0.0268	0.0273	107.	79.7-118	1.99	20	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0235	0.0255	94.0	73.8-122	7.98	20	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0292	0.0289	117.	75.9-124	0.940	20	WG749931
Trichloroethene	mg/kg	0.0270	0.0260	108.	77.9-118	3.58	20	WG749931
Trichlorofluoromethane	mg/kg	0.0269	0.0280	108.	67.7-131	3.71	20	WG749931
Vinyl chloride	mg/kg	0.0336	0.0354	134*	66.7-130	5.40	20	WG749931
Xylenes, Total	mg/kg	0.0807	0.0820	108.	78.8-121	1.57	20	WG749931
4-Bromofluorobenzene				94.40	71-126			WG749931
Dibromofluoromethane				91.00	78.3-121			WG749931
Toluene-d8				102.0	88.5-111			WG749931

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0241	0.0	.025	97.0	64-128	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0230	0.0	.025	92.0	58.7-134	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0285	0.0	.025	110.	56-132	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0262	0.0	.025	100.	66.3-125	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0259	0.0	.025	100.	54.8-154	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0279	0.0	.025	110.	58.5-132	L728012-01	WG749931

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Quality Assurance Report
Level II

L728392

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
1,1-Dichloroethene	mg/kg	0.0246	0.0	.025	98.0	51.1-140	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0218	0.0	.025	87.0	57.3-136	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0272	0.0	.025	110.	59.1-138	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0288	0.0	.025	120.	61.4-128	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0241	0.0	.025	96.0	61.3-122	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0270	0.0	.025	110.	63.6-143	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0246	0.0	.025	99.0	57.4-137	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0327	0.0	.025	130.	57.3-136	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0252	0.0	.025	100.	67.1-125	L728012-01	WG749931
1,2-Dichlorobenzene	mg/kg	0.0252	0.0	.025	100.	68.2-123	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0213	0.0	.025	85.0	60-126	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0279	0.0	.025	110.	64.2-123	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0245	0.0	.025	98.0	63.6-132	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0257	0.0	.025	100.	63.1-131	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0248	0.0	.025	99.0	67.9-121	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0253	0.0	.025	100.	68.6-123	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0238	0.0	.025	95.0	50.5-144	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.159	0.0	.125	130.	22.4-138	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.130	0.0	.125	100.	10-155	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0224	0.0	.025	90.0	63.6-128	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0246	0.0	.025	98.0	65.7-127	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.163	0.0	.125	130.	60.8-140	L728012-01	WG749931
Acetone	mg/kg	0.224	0.00268	.125	180.*	10-130	L728012-01	WG749931
Acrylonitrile	mg/kg	0.184	0.0	.125	150.*	49.4-133	L728012-01	WG749931
Benzene	mg/kg	0.0246	0.0	.025	98.0	54.3-133	L728012-01	WG749931
Bromobenzene	mg/kg	0.0234	0.0	.025	94.0	63.9-124	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0246	0.0	.025	98.0	63.9-121	L728012-01	WG749931
Bromoform	mg/kg	0.0289	0.0	.025	120.	59.5-134	L728012-01	WG749931
Bromomethane	mg/kg	0.0341	0.0	.025	140.	41.7-155	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0232	0.0	.025	93.0	55.7-134	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0241	0.0	.025	96.0	67-125	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0267	0.0	.025	110.	64.3-125	L728012-01	WG749931
Chloroethane	mg/kg	0.0292	0.0	.025	120.	51.5-136	L728012-01	WG749931
Chloroform	mg/kg	0.0232	0.0	.025	93.0	63-129	L728012-01	WG749931
Chloromethane	mg/kg	0.0299	0.0	.025	120.	42.4-135	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0248	0.0	.025	99.0	59.2-129	L728012-01	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0270	0.0	.025	110.	66.4-125	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0342	0.0	.025	140.*	56.9-136	L728012-01	WG749931
Dibromomethane	mg/kg	0.0256	0.0	.025	100.	68.2-124	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0237	0.0	.025	95.0	40.6-144	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0247	0.0	.025	99.0	61.4-133	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0227	0.0	.025	91.0	55.1-136	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0244	0.0	.025	97.0	66.8-141	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0317	0.0	.025	130.	57.7-134	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0283	0.000499	.025	110.	58.1-122	L728012-01	WG749931
n-Butylbenzene	mg/kg	0.0253	0.0	.025	100.	62.7-140	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0241	0.0	.025	96.0	10-176	L728012-01	WG749931
Naphthalene	mg/kg	0.0286	0.0	.025	110.	58-135	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0249	0.0	.025	100.	63.2-139	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0236	0.0	.025	94.0	62.2-136	L728012-01	WG749931
Styrene	mg/kg	0.0257	0.0	.025	100.	66.8-133	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0242	0.0	.025	97.0	63.3-134	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0258	0.0	.025	100.	53-139	L728012-01	WG749931
Toluene	mg/kg	0.0255	0.0	.025	100.	61.4-130	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0260	0.0	.025	100.	56.5-129	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0279	0.0	.025	110.	64.1-128	L728012-01	WG749931
Trichloroethene	mg/kg	0.0249	0.0	.025	100.	44.1-149	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0245	0.0	.025	98.0	49.6-145	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0292	0.0	.025	120.	47.8-137	L728012-01	WG749931

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Tax I.D. 62-0814289

Est. 1970

PES Environmental, Inc.- WA
Matt Dahl
1215 Fourth Ave., Suite 1350

Seattle, WA 98161

Quality Assurance Report
Level II

L728392

October 23, 2014

Analyte	Units	Matrix Spike MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
Xylenes, Total	mg/kg	0.0739	0.0	.075	99.0	63.3-131	L728012-01	WG749931
4-Bromofluorobenzene					91.00	71-126		WG749931
Dibromofluoromethane					92.40	78.3-121		WG749931
Toluene-d8					100.0	88.5-111		WG749931

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
1,1,1,2-Tetrachloroethane	mg/kg	0.0213	0.0241	85.3	64-128	12.4	20	L728012-01	WG749931
1,1,1-Trichloroethane	mg/kg	0.0204	0.0230	81.5	58.7-134	12.2	20	L728012-01	WG749931
1,1,2,2-Tetrachloroethane	mg/kg	0.0278	0.0285	111.	56-132	2.26	22.2	L728012-01	WG749931
1,1,2-Trichloroethane	mg/kg	0.0240	0.0262	96.0	66.3-125	8.80	20	L728012-01	WG749931
1,1,2-Trichlorotrifluoroethane	mg/kg	0.0226	0.0259	90.4	54.8-154	13.8	22.5	L728012-01	WG749931
1,1-Dichloroethane	mg/kg	0.0208	0.0279	83.2	58.5-132	29.1*	20	L728012-01	WG749931
1,1-Dichloroethene	mg/kg	0.0219	0.0246	87.4	51.1-140	11.8	20.2	L728012-01	WG749931
1,1-Dichloropropene	mg/kg	0.0193	0.0218	77.2	57.3-136	12.3	20	L728012-01	WG749931
1,2,3-Trichlorobenzene	mg/kg	0.0240	0.0272	95.9	59.1-138	12.6	23.7	L728012-01	WG749931
1,2,3-Trichloropropane	mg/kg	0.0273	0.0288	109.	61.4-128	5.57	22.4	L728012-01	WG749931
1,2,3-Trimethylbenzene	mg/kg	0.0208	0.0241	83.3	61.3-122	14.7	20	L728012-01	WG749931
1,2,4-Trichlorobenzene	mg/kg	0.0235	0.0270	94.0	63.6-143	14.1	21.9	L728012-01	WG749931
1,2,4-Trimethylbenzene	mg/kg	0.0217	0.0246	86.8	57.4-137	12.7	20	L728012-01	WG749931
1,2-Dibromo-3-Chloropropane	mg/kg	0.0295	0.0327	118.	57.3-136	10.3	27	L728012-01	WG749931
1,2-Dibromoethane	mg/kg	0.0239	0.0252	95.6	67.1-125	5.31	20	L728012-01	WG749931
1,2-Dichlorobenzene	mg/kg	0.0218	0.0252	87.2	68.2-123	14.5	20	L728012-01	WG749931
1,2-Dichloroethane	mg/kg	0.0192	0.0213	76.6	60-126	10.5	20	L728012-01	WG749931
1,2-Dichloropropane	mg/kg	0.0236	0.0279	94.2	64.2-123	16.8	20	L728012-01	WG749931
1,3,5-Trimethylbenzene	mg/kg	0.0215	0.0245	85.9	63.6-132	13.1	20.5	L728012-01	WG749931
1,3-Dichlorobenzene	mg/kg	0.0225	0.0257	90.1	63.1-131	13.0	20	L728012-01	WG749931
1,3-Dichloropropane	mg/kg	0.0226	0.0248	90.2	67.9-121	9.32	20	L728012-01	WG749931
1,4-Dichlorobenzene	mg/kg	0.0221	0.0253	88.3	68.6-123	13.8	20	L728012-01	WG749931
2,2-Dichloropropane	mg/kg	0.0212	0.0238	84.8	50.5-144	11.5	21.9	L728012-01	WG749931
2-Butanone (MEK)	mg/kg	0.153	0.159	122.	22.4-138	3.55	27	L728012-01	WG749931
2-Chloroethyl vinyl ether	mg/kg	0.122	0.130	97.5	10-155	6.36	40	L728012-01	WG749931
2-Chlorotoluene	mg/kg	0.0207	0.0224	82.9	63.6-128	7.93	20	L728012-01	WG749931
4-Chlorotoluene	mg/kg	0.0216	0.0246	86.5	65.7-127	12.7	20	L728012-01	WG749931
4-Methyl-2-pentanone (MIBK)	mg/kg	0.157	0.163	126.	60.8-140	3.30	25.1	L728012-01	WG749931
Acetone	mg/kg	0.152	0.224	119.	10-130	38.5*	27.9	L728012-01	WG749931
Acrylonitrile	mg/kg	0.158	0.184	126.	49.4-133	15.6	25.3	L728012-01	WG749931
Benzene	mg/kg	0.0215	0.0246	86.1	54.3-133	13.3	20	L728012-01	WG749931
Bromobenzene	mg/kg	0.0211	0.0234	84.4	63.9-124	10.3	20	L728012-01	WG749931
Bromodichloromethane	mg/kg	0.0215	0.0246	85.9	63.9-121	13.4	20	L728012-01	WG749931
Bromoform	mg/kg	0.0269	0.0289	108.	59.5-134	7.14	20.8	L728012-01	WG749931
Bromomethane	mg/kg	0.0291	0.0341	116.	41.7-155	15.6	20.5	L728012-01	WG749931
Carbon tetrachloride	mg/kg	0.0208	0.0232	83.2	55.7-134	10.9	20.3	L728012-01	WG749931
Chlorobenzene	mg/kg	0.0214	0.0241	85.7	67-125	11.9	20	L728012-01	WG749931
Chlorodibromomethane	mg/kg	0.0233	0.0267	93.3	64.3-125	13.3	20	L728012-01	WG749931
Chloroethane	mg/kg	0.0256	0.0292	102.	51.5-136	13.0	20.8	L728012-01	WG749931
Chloroform	mg/kg	0.0205	0.0232	82.0	63-129	12.5	20	L728012-01	WG749931
Chloromethane	mg/kg	0.0264	0.0299	106.	42.4-135	12.4	20	L728012-01	WG749931
cis-1,2-Dichloroethene	mg/kg	0.0216	0.0248	86.5	59.2-129	13.7	20	L728012-01	WG749931
cis-1,3-Dichloropropene	mg/kg	0.0236	0.0270	94.2	66.4-125	13.7	20	L728012-01	WG749931
Di-isopropyl ether	mg/kg	0.0231	0.0342	92.6	56.9-136	38.7*	20	L728012-01	WG749931
Dibromomethane	mg/kg	0.0229	0.0256	91.7	68.2-124	11.0	20	L728012-01	WG749931
Dichlorodifluoromethane	mg/kg	0.0221	0.0237	88.4	40.6-144	7.02	20.2	L728012-01	WG749931
Ethylbenzene	mg/kg	0.0215	0.0247	85.8	61.4-133	14.1	20	L728012-01	WG749931
Hexachloro-1,3-butadiene	mg/kg	0.0202	0.0227	81.0	55.1-136	11.3	23.6	L728012-01	WG749931
Isopropylbenzene	mg/kg	0.0212	0.0244	84.9	66.8-141	13.7	20	L728012-01	WG749931
Methyl tert-butyl ether	mg/kg	0.0240	0.0317	96.1	57.7-134	27.6*	20	L728012-01	WG749931
Methylene Chloride	mg/kg	0.0208	0.0283	81.0	58.1-122	30.9*	20	L728012-01	WG749931

* Performance of this Analyte is outside of established criteria.
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Seattle, WA 98161

Quality Assurance Report
Level II

L728392

October 23, 2014

Analyte	Units	Matrix Spike Duplicate MSD	Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
n-Butylbenzene	mg/kg	0.0211	0.0253	84.3	62.7-140	18.4	20	L728012-01	WG749931
n-Propylbenzene	mg/kg	0.0213	0.0241	85.2	10-176	12.5	26.6	L728012-01	WG749931
Naphthalene	mg/kg	0.0272	0.0286	109.	58-135	4.76	25.5	L728012-01	WG749931
p-Isopropyltoluene	mg/kg	0.0220	0.0249	88.0	63.2-139	12.5	20.4	L728012-01	WG749931
sec-Butylbenzene	mg/kg	0.0210	0.0236	83.8	62.2-136	11.9	20.3	L728012-01	WG749931
Styrene	mg/kg	0.0231	0.0257	92.2	66.8-133	10.8	20	L728012-01	WG749931
tert-Butylbenzene	mg/kg	0.0212	0.0242	84.9	63.3-134	13.2	20.3	L728012-01	WG749931
Tetrachloroethene	mg/kg	0.0217	0.0258	86.8	53-139	17.0	20	L728012-01	WG749931
Toluene	mg/kg	0.0227	0.0255	90.8	61.4-130	11.6	20	L728012-01	WG749931
trans-1,2-Dichloroethene	mg/kg	0.0197	0.0260	78.7	56.5-129	27.8*	20	L728012-01	WG749931
trans-1,3-Dichloropropene	mg/kg	0.0267	0.0279	107.	64.1-128	4.36	20	L728012-01	WG749931
Trichloroethene	mg/kg	0.0208	0.0249	83.1	44.1-149	18.0	20	L728012-01	WG749931
Trichlorofluoromethane	mg/kg	0.0215	0.0245	85.8	49.6-145	13.3	21.2	L728012-01	WG749931
Vinyl chloride	mg/kg	0.0261	0.0292	104.	47.8-137	11.3	20	L728012-01	WG749931
Xylenes, Total	mg/kg	0.0662	0.0739	88.3	63.3-131	11.0	20	L728012-01	WG749931
4-Bromofluorobenzene				93.70	71-126				WG749931
Dibromofluoromethane				93.00	78.3-121				WG749931
Toluene-d8				101.0	88.5-111				WG749931

Batch number /Run number / Sample number cross reference

WG749772: R2999202: L728392-01 02 03 04
WG749931: R2999734: L728392-01 02 03 04

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Quality Assurance Report
Level II

L728392

October 23, 2014

The data package includes a summary of the analytic results of the quality control samples required by the SW-846 or CWA methods. The quality control samples include a method blank, a laboratory control sample, and the matrix spike/matrix spike duplicate analysis. If a target parameter is outside the method limits, every sample that is effected is flagged with the appropriate qualifier in Appendix B of the analytic report.

Method Blank - an aliquot of reagent water carried through the entire analytic process. The method blank results indicate if any possible contamination exposure during the sample handling, digestion or extraction process, and analysis. Concentrations of target analytes above the reporting limit in the method blank are qualified with the "B" qualifier.

Laboratory Control Sample - is a sample of known concentration that is carried through the digestion/extraction and analysis process. The percent recovery, expressed as a percentage of the theoretical concentration, has statistical control limits indicating that the analytic process is "in control". If a target analyte is outside the control limits for the laboratory control sample or any other control sample, the parameter is flagged with a "J4" qualifier for all effected samples.

Matrix Spike and Matrix Spike Duplicate - is two aliquots of an environmental sample that is spiked with known concentrations of target analytes. The percent recovery of the target analytes also has statistical control limits. If any recoveries that are outside the method control limits, the sample that was selected for matrix spike/matrix spike duplicate analysis is flagged with either a "J5" or a "J6". The relative percent difference (%RPD) between the matrix spike and the matrix spike duplicate recoveries is all calculated. If the RPD is above the method limit, the effected samples are flagged with a "J3" qualifier.

PES Environmental, Inc.- WA

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Billing Information:
Attn: Accounts Payable
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Seattle, WA 98161

Report to: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-26-10	Grab	SS	10	10-16-14	1005	4	X	X			01
~~AS-9-10 (D)~~	~~—~~	~~SS~~				~~4~~	~~X~~	~~X~~			
AS-9-25	Grab	SS	25	10-16-14	1445	4	X	X			02
AS-8-25	Grab	SS	25	10-17-14	0900	4	X	X			03
AS-27-8	Grab	SS	8	10-17-14	1150	4	X	X			04
~~TRIP BLANK (D)~~	~~—~~	~~GW~~				1			X		05
not Included											

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 5413472594225

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10-17-14	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Scott Green

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 32°C °C Bottles Received: 16

Date: 10/18/14 Time: 0900

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

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Phone: 800-767-5859
Fax: 615-758-5859

L # L728782

B110

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483489
TSR: 358 - Jarred Willis
PB:
Shipped Via: FedEX Ground

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: Matt Dahl

Email To: mdahl@pesenv.com; krankich@pesenv.com

Project Description: MVSC in Normandy Park, WA

City/State Collected: Normandy Park WA

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

Client Project # 1358.001.01.005

Lab Project # PESENVSWA-135800101

Collected by (print): Chris DeBoer

Site/Facility ID # NORMADY PARK, WA

P.O. #

Collected by (signature): Chris DeBoer
Immediately Packed on Ice N ___ Y X

Rush? (Lab MUST Be Notified)
___ Same Day 200%
___ Next Day 100%
___ Two Day 50%
___ Three Day 25%

Date Results Needed

Email? ___No X_Yes
FAX? ___No ___Yes

Analysis / Container / Preservative

Sample ID	Comp/Grab	Matrix *	Depth	Date	Time	No. of Cntrs	TS / VOC Screen 4ozClr-NoPres	V8260 40ml/NaHSO4/Syr/MeOH	V8260- Trip Blank 40mlAmb-HCl-Blk	Rem./Contaminant	Sample # (lab only)
AS-26-10	Grab	SS	10	10-16-14	1005	4	X	X			01
~~AS-9-10 (D)~~	~~—~~	~~SS~~				~~4~~	~~X~~	~~X~~			
AS-9-25	Grab	SS	25	10-16-14	1445	4	X	X			02
AS-8-25	Grab	SS	25	10-17-14	0900	4	X	X			03
AS-27-8	Grab	SS	8	10-17-14	1150	4	X	X			04
~~TRIP BLANK (D)~~	~~—~~	~~GW~~				1			X		05
not Included											

* Matrix: **SS** - Soil **GW** - Groundwater **WW** - WasteWater **DW** - Drinking Water **OT** - Other_____

Remarks: 5413472594225

pH _____ Temp _____
Flow _____ Other _____

Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Chris DeBoer	10-17-14	1400	
Relinquished by : (Signature)	Date:	Time:	Received by: (Signature)
Relinquished by : (Signature)	Date:	Time:	Received for lab by: (Signature)
			Scott Green

Samples returned via: ☐ UPS ☒ FedEx ☐ Courier ☐ _____

Temp: 32°C °C Bottles Received: 16

Date: 10/18/14 Time: 0900

Hold #

Condition: (lab use only) OK

COC Seal Intact: ___Y ___N ___NA

pH Checked: NCF:

Chain of Custody Page ___ of ___

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

L # L728782

B110

Acctnum: PESENVSWA
Template: T97039
Prelogin: P483489
TSR: 358 - Jarred Willis
PB:
Shipped Via: FedEX Ground

ATTACHMENT D
WELL COMPLETION DETAILS AND HISTORICAL GRONDWATER DATA SUMMARIES

Table D-1

Well Completion Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Well	Ecology Well Tag Number	Date Installed	Drilling Method	Location (feet NAD 83/91) Northing	Location (feet NAD 83/91) Easting	Elevation (feet NAVD 88) Monitoring Point	Elevation (feet NAVD 88) Surface Casing Rim	Elevation (feet NAVD 88) Ground Surface	Monument Type	Boring Depth (feet)	Well Diameter (inches)	Screen Depth (ft bgs) Below Ground	Screen Depth (ft bgs) Below Top of Casing	Slot Size (inch)	Filter Pack (ft bgs)	Seal (ft bgs)
Shallow Monitoring Wells																
MW-1		12/9/99	HSA	--	--	309.97	--	--	Flush	44	2	34-44	--	0.020	est. 32-44	0-est. 32
MW-2		12/9/99	HSA	165,149.8	1,268,724.6	308.34	309.13	309.12	Flush	43	2	33-43	32.22-42.22	0.020	est. 31-43	0-est. 31
MW-3		4/8/08	HSA	164,857.2	1,268,511.5	311.41	311.76	311.74	Flush	47	2	36-46	35.67-45.67	0.010	34-46	0-34
MW-4		4/8/08	HSA	164,968.5	1,268,493.6	310.47	311.03	311.02	Flush	44	2	34-44	33.45-43.45	0.010	32-44	0-32
MW-5		4/8/08	HSA	165,331.6	1,268,938.6	310.38	310.84	--	Flush	46	2	36-46	35.6-45.6	0.010	34-46	0-34
MW-6		4/9/08	HSA	165,615.5	1,268,908.5	304.14	304.71	304.68	Flush	45	2	35-45	34.46-44.46	0.010	33-45	0-35
MW-7		4/9/08	HSA	165,652.2	1,268,684.8	302.64	303.18	303.17	Flush	45	2	35-45	34.47-44.47	0.010	33-45	0-35
MW-8		8/18/08	HSA	165,681.2	1,268,349.8	280.68	281.05	280.97	Flush	26	2	13-23	12.71-22.71	0.010	11-23	0-11
MW-9		8/18/08	HSA	166,019.8	1,268,663.9	284.97	285.35	285.37	Flush	55	2	32-42	31.6-41.6	0.010	30-42	0-30
MW-10		2/3/11	HSA	165,132.3	1,268,522.8	306.71	307.20	307.19	Flush	42	2	32-42	31.52-41.52	0.010	30-42	0-30
MW-11		2/3/11	HSA	165,122.2	1,268,582.9	307.62	308.13	308.06	Flush	42	2	32-42	31.56-41.56	0.010	30-42	0-30
MW-12		3/28/12	HSA	164,825.0	1,268,516.1	312.80	313.12	313.10	Flush	46.5	2	36-46	35.7-45.7	0.010	34-46.5	0-34
MW-13		3/29/12	HSA	165,036.5	1,268,459.8	308.75	309.16	309.17	Flush	46.5	2	35-45	34.58-44.58	0.010	33-45	0-33
MW-14		3/27/12	HSA	165,261.1	1,268,564.6	303.82	304.24	--	Flush	38	2	28-38	27.6-37.6	0.010	26-38	0-26
MW-15		3/28/12	HSA	165,103.9	1,268,678.7	312.44	312.81	310.30	AG	46.5	2	35-45	37.14-47.14	0.010	33-45.5	0-33
MW-16	BHV646	5/16/13	HSA	165,164.5	1,268,613.3	310.37	311.21	307.92	AG	43	2	27.2-42.2	29.45-44.65	0.020	25-43	0-25
DC-1		10/12/98	HSA	164,940.2	1,268,698.6	312.82	313.34	--	Flush	47	2	40-45	39.5-44.5	0.020	37-47	0-37
DC-2		10/13/98	HSA	165,055.6	1,268,655.1	312.92	313.61	313.70	Flush	50	2	42-47	41.22-46.22	0.020	40-50	0-40
DC-3		10/13/98	HSA	165,056.4	1,268,607.7	313.11	313.68	313.79	Flush	48	2	43-48	42.32-47.32	0.020	41-48	0-41
DC-4		10/13/98	HSA	165,058.1	1,268,537.4	312.35	312.96	312.99	Flush	49	2	44-49	43.36-48.36	0.020	41-49	0-41
DC-6		1/22/99	HSA	--	--	308.46	--	--	Flush	45	2	40-45	--	0.020	37-45	0-37
DC-7		1/18/99	HSA	165,318.1	1,268,514.4	302.61	303.30	303.26	Flush	40	2	35-40	34.35-39.35	0.020	33-40	0-33
DC-8		1/18/99	HSA	165,328.8	1,268,685.4	306.23	306.70	306.59	Flush	42	2	37-42	36.64-41.64	0.020	34-42	0-34
DC-9A		4/6/99	HSA	165,124.7	1,268,587.3	308.02	--	--	Flush	38	2	33-38	32.6-37.6	0.020	31-38	0-31
DC-10A		4/5/99	HSA	165,117.2	1,268,497.2	307.73	307.83	307.72	Flush	37	2	32-37	32.01-37.01	0.020	30-37	0-30
DC-11		4/19/07	HSA	165,078.5	1,268,816.1	311.25	311.66	--	Flush	42	2	32-42	31.6-41.6	0.010	30-42	0-30
DC-12		4/18/07	HSA	165,179.4	1,268,851.9	311.25	311.58	--	Flush	42	2	32-42	31.7-41.7	0.010	30-42	0-30
DC-13		4/19/07	HSA	165,208.9	1,268,827.2	310.20	310.52	--	Flush	42	2	32-42	31.7-41.7	0.010	30-42	0-30
DC-14		4/17/07	HSA	165,355.0	1,268,812.6	308.94	309.49	--	Flush	45	2	35-45	34.4-44.4	0.010	33-45	0-33
DC-15		4/16/07	HSA	165,267.1	1,268,705.9	307.89	308.20	--	Flush	42	2	31-41	30.7-40.7	0.010	29-41	0-29
DC-17		4/16/07	HSA	165,194.2	1,268,528.6	305.16	305.58	305.35	Flush	40	2	30-40	29.81-39.81	0.010	28-40	0-28
DC-18		4/18/07	HSA	165,197.1	1,268,765.0	309.51	309.95	309.93	Flush	42	2	32-42	31.58-41.58	0.010	30-42	0-30
DC-19		6/1/07	HSA	165,039.3	1,268,829.6	313.62	313.82	--	Flush	47	2	37-47	36.8-46.8	0.010	35-47	0-35
DC-20		5/28/08	HSA	165,237.2	1,268,854.8	310.92	311.13	--	Flush	44	2	34-44	33.8-43.8	0.020	32-44	0-32
KMW-1		7/25/05	HSA	165,245.9	1,268,892.6	311.59	311.82	--	Flush	52	2	37-52	36.8-51.8	0.010	34-52	0-34
KMW-2		5/1/06	HSA	165,111.7	1,268,531.0	307.04	307.27	307.13	Flush	50	6	30-40	29.91-39.91	0.010	8-40	0-8
KMW-3		5/1/06	HSA	165,357.4	1,268,462.5	296.92	297.52	--	Flush	40	2	25-35	24.6-34.6	0.010	8-35	0-8
KMW-4		3/28/07	HSA	165,175.7	1,268,369.8	299.57	299.84	299.78	Flush	34	2	24-34	23.79-33.79	0.020	22-34	0-22
KMW-5		3/28/07	HSA	165,267.7	1,268,380.4	297.22	297.58	297.56	Flush	34	2	24-34	23.66-33.66	0.020	22-34	0-22
KMW-6		3/27/07	HSA	165,391.1	1,268,399.1	294.81	295.06	295.08	Flush	42.5	2	26-41	25.73-40.73	0.020	22-41	0-22
KMW-7		3/25/07	HSA	165,389.7	1,268,563.6	301.43	301.66	301.65	Flush	44	2	29-44	28.78-43.78	0.020	27-44	0-27
KMW-8		3/26/07	HSA	165,386.2	1,268,800.7	308.15	308.51	308.46	Flush	44	2	29-44	28.69-43.69	0.020	27-44	0-29
KMW-9		3/27/07	HSA	165,079.0	1,268,726.3	310.33	310.83	310.83	Flush	44	2	34-44	33.5-43.5	0.020	32-44	0-32

Table D-1

Well Completion Details
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Well	Ecology Well Tag Number	Date Installed	Drilling Method	Location (feet NAD 83/91) Northing	Location (feet NAD 83/91) Easting	Elevation (feet NAVD 88) Monitoring Point	Elevation (feet NAVD 88) Surface Casing Rim	Elevation (feet NAVD 88) Ground Surface	Monument Type	Boring Depth (feet)	Well Diameter (inches)	Screen Depth (ft bgs) Below Ground	Screen Depth (ft bgs) Below Top of Casing	Slot Size (inch)	Filter Pack (ft bgs)	Seal (ft bgs)
Deep Monitoring Wells																
DC-5		1/22/99	HSA	165,166.5	1,268,526.9	306.03	306.28	306.24	Flush	58.5	2	41-46	40.79-45.79	0.020	39-47	0-39
DC-9B		4/5/99	HSA	165,122.8	1,268,589.4	308.16	--	--	Flush	60	2	53-58	--	0.020	50.5-58	0-50.5
DC-10B		4/6/99	HSA	165,120.4	1,268,497.5	307.80	308.29	307.89	Flush	56	2	45-50	44.91-49.91	0.020	43-50	0-43
DC-16		4/18/07	HSA	165,169.7	1,268,611.5	307.12	307.79	--	Flush	61.5	2	50-60	49.3-59.3	0.010	50-60	0-50
KMW-5D		3/28/07	HSA	165,276.5	1,268,382.0	297.04	297.35	297.32	Flush	46	2	41-46	40.72-45.72	0.020	41-46	0-41
Former SCS Soil Vapor Extraction Wells (1999)																
VES-1 (B1)		1999	--	--	--	--	--	--	Flush	11.5	2	3-11	--	0.020	2.5-11.5	1.5-2.5
VES-2A		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.020	2.5-6.5	1.5-2.5
VES-2B		1999	--	--	--	--	--	--	Flush	36	2	11.5-35.5	--	0.020	7.5-36	1.5-2.5/6.5-7.5
VES-3 (BH-15)		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.020	2.5-6.5	1.5-2.5
VES-4 (BH-16)		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.020	2.5-6.5	1.5-2.5
VES-5 (BH-17)		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.010	2.5-6.5	1.5-2.5
VES-6A (BH-1)		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.020	2.5-6.5	1.5-2.5
VES-6B (BH-1)		1999	--	--	--	--	--	--	Flush	36	2	11.5-35.5	--	0.020	7.5-36	1.5-2.5/6.5-7.5
VES-7		1999	--	--	--	--	--	--	Flush	6.5	2	3-6	--	0.020	2.5-6.5	1.5-2.5
Soil Vapor Extraction Wells																
SVE-1		6/29/09	HSA	164,943.5	1,268,516.2	311.85	312.02	--	Flush	35.5	2	10-35	9.7-34.7	0.020	8-35.5	0-8
SVE-2		6/29/09	HSA	165,000.3	1,268,522.6	312.41	312.58	--	Flush	35.5	2	10-35	9.6-34.6	0.020	8-35.5	0-8
SVE-3		6/30/09	HSA	165,070.2	1,268,536.4	308.28	--	307.84	Flush	30.5	2	10-30	10.44-30.44	0.020	8-30.5	0-8
SVE-4		6/30/09	HSA	165,069.1	1,268,589.2	308.90	--	308.31	Flush	30.5	2	10-30	10.59-30.59	0.020	8-30.5	0-8
SVE-5		6/30/09	HSA	165,068.8	1,268,655.3	309.91	--	309.31	Flush	30.5	2	10-30	10.6-30.6	0.020	8-30.5	0-8
SVE-6		6/26/09	AKVAC	165,057.5	1,268,693.4	313.03	313.57	--	Flush	10	2	5-10	4.6-9.6	0.010	4-10	0-4
SVE-7		6/30/09	HSA	165,077.5	1,268,704.6	310.71	--	309.95	Flush	30.5	2	10-30	10.76-30.76	0.020	8-30.5	0-8
SVE-8		6/30/09	HSA	165,085.8	1,268,738.3	311.48	--	310.56	Flush	30.5	2	10-30	10.92-30.92	0.020	8-30.5	0-8
SVE-9		6/29/09	HSA	165,060.0	1,268,819.5	313.31	--	312.13	Flush	30.5	2	10-30	11.18-31.18	0.020	8-30.5	0-8
SVE-10		6/30/09	HSA	165,187.1	1,268,839.8	311.06	311.28	--	Flush	30.5	2	10-30	9.8-29.8	0.020	8-30.5	0-8
SVE-11A	BIE307	11/18/13	HSA	164,824.5	1,268,484.7	--	311.21	--	Flush	20	4	5-19.98	4.6-19.58	0.020	3-20	0-3
SVE-11B	BIE301	11/18/13	HSA	164,831.2	1,268,492.0	--	311.43	--	Flush	57	4	20-35	19.6-34.6	0.020	18-36	0-18
SVE-12A	BIE303	11/19/13	HSA	164,851.6	1,268,512.2	--	312.06	--	Flush	20	4	5-19.98	4.6-19.58	0.020	3-20	0-3
SVE-12B	BIE304	11/20/13	HSA	164,853.8	1,268,506.7	--	311.52	--	Flush	57	4	20-35	19.6-34.6	0.020	18-36	0-18
SVE-13A	BIE306	11/22/13	HSA	164,912.3	1,268,505.4	--	310.95	--	Flush	20	4	5-19.98	4.6-19.58	0.020	3-20	0-3
SVE-13B	BIE305	11/21/13	HSA	164,903.3	1,268,505.6	--	310.99	--	Flush	57.5	4	20-35	19.6-34.6	0.020	18-36	0-18
SVE-14	BID732	10/13/14	HSA	164,945.9	1,268,498.5	--	311.06	--	Flush	36	4	19.63-34.63	19.23-34.23	0.020	18.3-36	3-18.3
SVE-15	BID736	10/15/14	HSA	165,000.5	1,268,503.7	--	311.30	--	Flush	36	4	20.61-34.96	20.21-34.56	0.020	19.3-36	3.5-19.3
SVE-16	BID737	10/15/14	HSA	165,035.5	1,268,501.1	--	310.83	--	Flush	36	4	20.49-34.79	20.09-34.39	0.020	18-36	3.5-18
SVE-17	BID709	9/24/14	HSA	165,071.8	1,268,503.4	--	308.39	--	Flush	31	4	19.91-29.91	19.51-29.51	0.020	18-31	3.3-18
SVE-18	BID708	9/23/14	HSA	165,107.0	1,268,504.1	--	307.34	--	Flush	31	4	19.79-29.79	19.39-29.39	0.020	17.9-31	16-17.9
SVE-19	BID715	9/29/14	HSA	165,091.9	1,268,579.7	--	308.53	--	Flush	31	4	19.99-29.99	19.59-29.59	0.020	18-31	3.5-18

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Well	Ecology Well Tag Number	Date Installed	Drilling Method	Location (feet NAD 83/91) Northing	Location (feet NAD 83/91) Easting	Elevation (feet NAVD 88) Monitoring Point	Elevation (feet NAVD 88) Surface Casing Rim	Elevation (feet NAVD 88) Ground Surface	Monument Type	Boring Depth (feet)	Well Diameter (inches)	Screen Depth (ft bgs) Below Ground	Screen Depth (ft bgs) Below Top of Casing	Slot Size (inch)	Filter Pack (ft bgs)	Seal (ft bgs)
Vapor Monitoring Probes																
VMP-1 (B-5)		3/26/08	DP	164,828.0	1,268,482.4	310.91	311.01	--	Flush	30	0.75	10-15	9.7-14.7	0.010	7-30	0-7
VMP-2 (B-7)		3/25/08	DP	164,964.6	1,268,493.8	310.97	311.04	--	Flush	30	0.75	10-15	9.8-14.8	0.010	7-30	0-7
VMP-3 (B-9)		3/25/08	DP	165,028.4	1,268,497.6	310.58	310.71	--	Flush	30	0.75	10-15	9.9-14.9	0.010	7-30	0-7
VMP-4 (B-11)		3/27/08	DP	165,079.0	1,268,533.8	307.67	308.00	--	Flush	30	0.75	10-15	9.7-14.7	0.010	7-30	0-7
VMP-5 (B-12)		3/27/08	DP	165,083.7	1,268,602.8	308.22	308.48	--	Flush	25	0.75	10-15	9.7-14.7	0.010	7-25	0-7
VMP-6 (B-13)		3/27/08	DP	165,071.2	1,268,674.9	308.95	309.18	--	Flush	26	0.75	10-15	9.8-14.8	0.010	7-26	0-7
Recirculation Well																
TW-1		5/2/06	HSA	165,114.8	1,268,571.3	--	--	--	AG	50	6	25-35/45-50	--	0.010	22-35/40-50	0-22/35-40
Pilot Test Injection Well																
IW-1		--	--	--	--	--	--	--	AG	38	--	--	--	--	--	--
Air Sparging Wells																
AS-1	BHV647	5/17/13	HSA	165,116.9	1,268,511.0	--	307.23	307.34	Flush	48	1	43.8-45.8	43.4-45.4	0.010	43.5-48	0-43.5
AS-2	BID714	9/29/14	HSA	165,093.2	1,268,557.0	--	308.30	--	Flush	53	2	48.08-51.13	47.68-50.73	0.020	48-53	3.0-48
AS-3	BID718	10/1/14	HSA	165,091.7	1,268,574.0	--	308.44	--	Flush	51	2	48.14-50.14	47.74-49.74	0.020	46-51	3.6-46
AS-4	BID717	9/30/14	HSA	165,073.3	1,268,590.4	--	308.25	--	Flush	51	2	48.82-50.80	48.42-50.4	0.020	47.3-51	3.3-47.3
AS-5	BID716	9/30/14	HSA	165,073.7	1,268,566.0	--	307.97	--	Flush	52	2	48.77-50.79	48.37-50.39	0.020	47.5-52	3.5-47.5
AS-6	BID713	9/26/14	HSA	165,073.2	1,268,541.5	--	307.89	--	Flush	52	2	48.91-50.92	48.51-50.52	0.020	47.6-52	3.5-47.6
AS-7	BID710	9/24/14	HSA	165,080.3	1,268,521.9	--	308.01	--	Flush	50.5	2	46.93-48.91	46.53-48.51	0.020	46-50.5	3.5-43
AS-8	BID740	10/17/14	HSA	165,058.0	1,268,525.1	--	312.52	--	Flush	54	2	52.10-54.14	51.7-53.74	0.020	51-54.31	3.5-51
AS-9	BID739	10/16/14	HSA	165,029.5	1,268,522.9	--	312.52	--	Flush	54	2	51.09-53.11	50.69-52.71	0.020	50-54	4-50
AS-10	BID733	10/14/14	HSA	165,004.5	1,268,521.9	--	312.52	--	Flush	56	2	52.78-54.80	52.38-54.4	0.020	52-56	3.9-52
AS-11	BID731	10/13/14	HSA	164,976.2	1,268,521.3	--	312.57	--	Flush	54.5	2	52.27-54.27	51.87-53.87	0.020	50.51-54.5	3-50.5
AS-12	BID729	10/10/14	HSA	164,948.4	1,268,520.9	--	312.34	--	Flush	54.24	2	52.06-54.07	51.66-53.67	0.020	50.7-54.24	3.5-50.7
AS-13	BID728	10/9/14	HSA	164,920.9	1,268,520.2	--	311.72	--	Flush	54	2	51.64-53.67	51.24-53.27	0.020	50.7-54	3.5-50.7
AS-14	BID726	10/8/14	HSA	164,891.0	1,268,520.2	--	311.93	--	Flush	54.09	2	51.88-53.92	51.48-53.52	0.020	50.9-54.09	3.3-50.09
AS-15	BID723	10/6/14	HSA	164,865.7	1,268,520.3	--	312.35	--	Flush	54	2	50.89-52.87	50.49-52.47	0.020	50-54	3.5-50
AS-16	BID724	10/7/14	HSA	164,841.0	1,268,511.9	--	312.37	--	Flush	54	2	51.89-53.97	51.49-53.57	0.020	51-54.04	3.3-51
AS-17	BID721	10/3/14	HSA	164,821.9	1,268,488.3	--	311.44	--	Flush	54.02	2	51.87-53.85	51.47-53.45	0.020	50.5-54.02	3.3-50.5
AS-18	BID719	10/2/14	HSA	164,810.9	1,268,465.6	--	310.51	--	Flush	54.5	2	50.37-52.35	49.97-51.95	0.020	49.5-54.5	3.6-49.5
AS-19	BID720	10/3/14	HSA	164,834.5	1,268,474.4	--	310.67	--	Flush	54.08	2	51.94-53.91	51.54-53.51	0.020	50.7-54.08	3.0-54.08
AS-20	BID722	10/6/14	HSA	164,852.1	1,268,491.4	--	311.00	--	Flush	54	2	50.96-52.94	50.56-52.54	0.020	49.6-54	3.5-49.6
AS-21	BID725	10/7/14	HSA	164,879.0	1,268,495.8	--	310.98	--	Flush	55	2	51.92-53.92	51.52-53.52	0.020	50.7-55	3.5-50.7
AS-22	BID727	10/8/14	HSA	164,907.4	1,268,496.1	--	310.72	--	Flush	55	2	52.38-54.40	51.98-54	0.020	51.5-55	3.5-51.5
AS-23	BID730	10/10/14	HSA	164,935.3	1,268,497.1	--	310.88	--	Flush	55	2	52.72-54.76	52.32-54.36	0.020	52-55	3.7-55
AS-24	BID734	10/14/14	HSA	164,963.7	1,268,494.9	--	311.08	--	Flush	55	2	52.68-54.74	52.28-54.34	0.020	52-55	3.5-52
AS-25	BID735	10/15/14	HSA	164,993.3	1,268,503.1	--	311.33	--	Flush	56	2	53.35-55.36	52.95-54.96	0.020	51.9-56	3.5-51.9
AS-26	BID738	10/16/14	HSA	165,018.0	1,268,497.2	--	310.75	--	Flush	55.5	2	53.10-54.14	52.7-53.74	0.020	52-55.5	4-52
AS-27	BID741	10/17/14	HSA	165,047.3	1,268,497.3	--	310.99	--	Flush	55.5	2	53.10-55.14	52.7-54.74	0.020	52-55.5	4-52
AS-28	BID706	9/22/14	HSA	165,077.4	1,268,498.9	--	308.11	--	Flush	50.5	2	47.94-49.88	47.54-49.48	0.020	47.5-50.5	3.5-47.5
AS-29	BID707	9/23/14	HSA	165,098.0	1,268,498.4	--	307.74	--	Flush	51	2	48.10-50.08	47.7-49.68	0.020	47-51	3.3-47
AS-30	BID711	9/25/14	HSA	165,100.2	1,268,516.2	--	307.36	--	Flush	52	2	48.24-50.24	47.84-49.84	0.020	46.8-52	3.8-46.8
AS-31	BID712	9/26/14	HSA	165,098.2	1,268,535.6	--	308.10	--	Flush	52.5	2	48.86-50.89	48.46-50.49	0.020	47.6-52.5	3.5-47.6

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Well	Ecology Well Tag Number	Date Installed	Drilling Method	Location (feet NAD 83/91) Northing	Location (feet NAD 83/91) Easting	Elevation (feet NAVD 88) Monitoring Point	Elevation (feet NAVD 88) Surface Casing Rim	Elevation (feet NAVD 88) Ground Surface	Monument Type	Boring Depth (feet)	Well Diameter (inches)	Screen Depth (ft bgs) Below Ground	Screen Depth (ft bgs) Below Top of Casing	Slot Size (inch)	Filter Pack (ft bgs)	Seal (ft bgs)

Notes:

1. Northing and easting in feet relative to the Washington State Plane System North Zone (NAD 83/91)
2. Elevations in feet relative to the North American Vertical Datum (NAVD 88)
3. Monitoring point = top of the PVC well casing
4. All depths shown in feet below ground surface (ft bgs)
5. All wells completed with Schedule 40 PVC with the exception of AS-1 (Schdedule 80 PVC)
6. Drilling methods include hollow stem auger (HSA), direct push (DP), and vacuum truck with air knife (AKVAC)
7. '-- = not documented or unknown
8. Surface elevations for the direct push borings represents ground surface adjacent to the boring
9. Screened intervals are documented on boring logs and are typically based on a field measurements relative to ground surface at the time of drilling. Screened intervals relative to top of casing are estimated using well field construction measurements, surveyed top of casing elevations, surveyed ground surface elevations, and in some cases surveyed monument rim elevations. If ground or rim elevations are not surveyed, then top of casing is assumed to be 0.4 ft depth.
10. Monitoring wells MW-1, DC-6, DC-9A, DC-9B are missing or destroyed. The 1999 SCS VES wells have been decommissioned.

Table D-2

Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
MW-1	12/10/1999	309.97	37.44	272.53
MW-1	2/9/2005	309.97	39.52	270.45
MW-1	4/11/2006	309.97	37.78	272.19
MW-1	10/26/2006	309.97	39.22	270.75
MW-1	4/24/2007	309.97	36.61	273.36
MW-1	8/21/2008	309.97	37.32	272.65
MW-2	12/10/1999	307.69	35.60	272.09
MW-2	11/5/2010	307.69	37.03	270.66
MW-2	2/11/2011	307.69	35.81	271.88
MW-2	5/30/2011	307.69	34.40	273.29
MW-2	7/19/2011	307.69	34.71	272.98
MW-2	10/17/2011	307.69	35.80	271.89
MW-2	4/2/2012	307.69	36.11	271.58
MW-2	5/28/2013	308.56	35.73	272.83
MW-2	4/14/2014	308.56	36.17	272.39
MW-2	10/21/2014	308.34	36.48	271.86
MW-2	12/11/2015	308.34	36.89	271.45
MW-2	12/13/2016	308.34	36.09	272.25
MW-2	3/13/2017	308.34	34.93	273.41
MW-3	8/21/2008	311.49	39.77	271.72
MW-3	11/5/2010	311.49	39.43	272.06
MW-3	2/11/2011	311.49	38.10	273.39
MW-3	5/30/2011	311.49	36.66	274.83
MW-3	7/19/2011	311.49	37.03	274.46
MW-3	10/17/2011	311.49	38.18	273.31
MW-3	4/2/2012	311.49	38.39	273.10
MW-3	5/28/2013	311.62	38.09	273.53
MW-3	10/21/2014	311.41	38.91	272.50
MW-3	12/9/2015	311.41	39.28	272.13
MW-3	12/13/2016	311.41	38.44	272.97
MW-3	3/13/2017	311.41	37.09	274.32

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
MW-4	11/5/2010	310.54	38.74	271.80
MW-4	2/11/2011	310.54	37.41	273.13
MW-4	5/30/2011	310.54	35.99	274.55
MW-4	7/19/2011	310.54	36.37	274.17
MW-4	10/17/2011	310.54	37.50	273.04
MW-4	4/2/2012	310.54	37.67	272.87
MW-4	5/28/2013	310.68	37.40	273.28
MW-4	10/21/2014	310.47	38.13	272.34
MW-4	12/9/2015	310.47	38.60	271.87
MW-4	12/13/2016	310.47	37.36	273.11
MW-4	3/13/2017	310.47	36.42	274.05
MW-5	8/21/2008	310.28	39.96	270.32
MW-5	11/5/2010	310.28	39.73	270.55
MW-5	2/11/2011	310.28	38.60	271.68
MW-5	5/30/2011	310.28	37.24	273.04
MW-5	7/19/2011	310.28	37.51	272.77
MW-5	10/17/2011	310.28	38.54	271.74
MW-5	4/2/2012	310.28	38.90	271.38
MW-5	10/21/2014	310.38	39.17	271.21
MW-5	12/9/2015	310.38	39.69	270.69
MW-5	12/13/2016	310.38	38.80	271.58
MW-5	3/13/2017	310.38	37.80	272.58
MW-6	8/21/2008	304.27	37.46	266.81
MW-6	11/5/2010	304.27	37.25	267.02
MW-6	2/11/2011	304.27	36.30	267.97
MW-6	5/30/2011	304.27	35.50	268.77
MW-6	7/19/2011	304.27	35.38	268.89
MW-6	10/17/2011	304.27	36.24	268.03
MW-6	4/2/2012	304.27	36.53	267.74
MW-6	10/21/2014	304.14	37.79	266.35
MW-6	12/9/2015	304.14	37.22	266.92
MW-6	12/13/2016	304.14	36.49	267.65
MW-6	3/13/2017	304.14	35.68	268.46

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
MW-7	8/21/2008	302.76	39.00	263.76
MW-7	11/5/2010	302.76	38.74	264.02
MW-7	2/11/2011	302.76	37.61	265.15
MW-7	5/30/2011	302.76	36.09	266.67
MW-7	7/19/2011	302.76	36.43	266.33
MW-7	10/17/2011	302.76	37.43	265.33
MW-7	4/2/2012	302.76	37.52	265.24
MW-7	5/28/2013	302.76	37.48	265.28
MW-7	10/30/2014	302.64	35.80	266.84
MW-7	12/9/2015	302.64	38.75	263.89
MW-7	12/13/2016	302.64	37.79	264.85
MW-7	3/13/2017	302.64	36.79	265.85
MW-8	8/21/2008	280.08	12.78	267.30
MW-8	2/11/2011	280.08	11.11	268.97
MW-8	5/30/2011	280.08	10.20	269.88
MW-8	7/19/2011	280.08	10.66	269.42
MW-8	10/17/2011	280.08	11.52	268.56
MW-8	4/2/2012	280.08	11.09	268.99
MW-8	10/21/2014	280.68	12.12	268.56
MW-8	12/9/2015	280.68	11.81	268.87
MW-8	12/13/2016	280.68	11.40	269.28
MW-8	3/13/2017	280.68	10.30	270.38
MW-9	8/21/2008	285.11	32.24	252.87
MW-9	11/5/2010	285.11	31.98	253.13
MW-9	2/11/2011	285.11	30.93	254.18
MW-9	5/30/2011	285.11	29.76	255.35
MW-9	7/19/2011	285.11	30.12	254.99
MW-9	10/17/2011	285.11	31.04	254.07
MW-9	4/2/2012	285.11	31.05	254.06
MW-9	10/21/2014	284.97	31.68	253.29
MW-9	12/9/2015	284.97	32.06	252.91
MW-9	12/13/2016	284.97	31.24	253.73
MW-9	3/13/2017	284.97	30.20	254.77

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
MW-10	2/11/2011	306.70	34.04	272.66
MW-10	5/30/2011	306.70	32.69	274.01
MW-10	7/19/2011	306.70	33.05	273.65
MW-10	10/17/2011	306.70	34.13	272.57
MW-10	4/2/2012	306.70	34.31	272.39
MW-10	5/28/2013	306.91	34.03	272.88
MW-10	10/21/2014	306.71	34.81	271.90
MW-10	12/9/2015	306.71	35.22	271.49
MW-10	12/13/2016	306.71	34.41	272.30
MW-10	3/13/2017	306.71	33.15	273.56
MW-11	2/11/2011	307.63	35.01	272.62
MW-11	5/30/2011	307.63	33.63	274.00
MW-11	7/19/2011	307.63	33.97	273.66
MW-11	10/17/2011	307.63	35.05	272.58
MW-11	4/2/2012	307.63	35.29	272.34
MW-11	5/28/2013	307.85	34.98	272.87
MW-11	10/21/2014	307.62	35.78	271.84
MW-11	12/9/2015	307.62	36.16	271.46
MW-11	12/13/2016	307.62	35.33	272.29
MW-11	3/13/2017	307.62	34.11	273.51
MW-12	4/2/2012	312.92	39.69	273.23
MW-12	5/28/2013	312.95	39.40	273.55
MW-12	10/21/2014	312.80	40.20	272.60
MW-12	12/9/2015	312.80	40.59	272.21
MW-12	12/13/2016	312.80	39.70	273.10
MW-12	3/13/2017	312.80	38.39	274.41
MW-13	4/2/2012	308.88	36.04	272.84
MW-13	5/28/2013	308.90	35.82	273.08
MW-13	10/21/2014	308.75	36.66	272.09
MW-13	12/9/2015	308.75	37.00	271.75
MW-13	12/13/2016	308.75	36.13	272.62
MW-13	3/13/2017	308.75	34.78	273.97

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
MW-14	4/2/2012	303.78	31.84	271.94
MW-14	5/28/2013	303.82	31.57	272.25
MW-14	10/21/2014	303.82	32.34	271.48
MW-14	12/11/2015	303.82	32.65	271.17
MW-14	12/13/2016	303.82	31.90	271.92
MW-14	3/13/2017	303.82	30.73	273.09
MW-15	4/2/2012	312.40	39.92	272.48
MW-15	5/28/2013	312.44	39.55	272.89
MW-15	4/14/2014	312.44	39.97	272.47
MW-15	10/21/2014	312.44	40.31	272.13
MW-15	12/9/2015	312.44	40.77	271.67
MW-15	12/13/2016	312.44	39.90	272.54
MW-15	3/13/2017	312.44	38.72	273.72
MW-16	5/28/2013	310.37	37.78	272.59
MW-16	10/21/2014	310.37	38.52	271.85
MW-16	12/9/2015	310.37	38.96	271.41
MW-16	12/13/2016	310.37	38.12	272.25
MW-16	3/13/2017	310.37	36.92	273.45

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-1	2/3/1999	312.46	38.31	274.15
DC-1	4/16/1999	312.46	36.08	276.38
DC-1	12/8/1999	312.46	39.13	273.33
DC-1	4/26/2000	312.46	38.30	274.16
DC-1	8/3/2000	312.46	39.01	273.45
DC-1	11/14/2000	312.46	40.29	272.17
DC-1	3/6/2001	312.46	41.11	271.35
DC-1	6/20/2001	312.46	41.46	271.00
DC-1	9/17/2001	312.46	41.78	270.68
DC-1	12/20/2001	312.46	41.43	271.03
DC-1	3/13/2002	312.46	39.75	272.71
DC-1	9/17/2002	312.46	39.75	272.71
DC-1	12/10/2002	312.46	40.69	271.77
DC-1	3/31/2003	312.46	40.33	272.13
DC-1	9/3/2003	312.46	40.69	271.77
DC-1	3/16/2004	312.46	39.77	272.69
DC-1	9/7/2004	312.46	40.57	271.89
DC-1	2/9/2005	312.46	41.31	271.15
DC-1	4/24/2007	312.46	38.29	274.17
DC-1	8/21/2008	312.72	40.93	271.79
DC-1	11/5/2010	312.72	40.64	272.08
DC-1	2/11/2011	312.72	39.37	273.35
DC-1	5/30/2011	312.72	37.91	274.81
DC-1	7/19/2011	312.72	38.21	274.51
DC-1	10/17/2011	312.72	39.37	273.35
DC-1	4/2/2012	312.72	39.72	273.00
DC-1	5/28/2013	312.82	39.30	273.52
DC-1	10/21/2014	312.82	40.05	272.77
DC-1	12/9/2015	312.82	40.51	272.31
DC-1	12/13/2016	312.82	39.63	273.19
DC-1	3/13/2017	312.82	38.46	274.36

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-2	2/3/1999	312.80	39.04	273.76
DC-2	4/16/1999	312.80	36.90	275.90
DC-2	12/8/1999	312.80	39.88	272.92
DC-2	4/26/2000	312.80	39.11	273.69
DC-2	8/3/2000	312.80	39.85	272.95
DC-2	11/14/2000	312.80	41.04	271.76
DC-2	3/6/2001	312.80	41.82	270.98
DC-2	6/20/2001	312.80	42.18	270.62
DC-2	9/17/2001	312.80	42.50	270.30
DC-2	12/20/2001	312.80	42.12	270.68
DC-2	3/13/2002	312.80	40.45	272.35
DC-2	6/13/2002	312.80	39.64	273.16
DC-2	9/17/2002	312.80	40.50	272.30
DC-2	12/10/2002	312.80	41.42	271.38
DC-2	3/31/2003	312.80	41.03	271.77
DC-2	9/3/2003	312.80	41.41	271.39
DC-2	3/16/2004	312.80	40.51	272.29
DC-2	9/7/2004	312.80	41.30	271.50
DC-2	2/9/2005	312.80	41.99	270.81
DC-2	4/24/2007	312.80	39.03	273.77
DC-2	8/21/2008	313.04	41.65	271.39
DC-2	11/5/2010	313.04	41.34	271.70
DC-2	2/11/2011	313.04	40.08	272.96
DC-2	5/30/2011	313.04	38.67	274.37
DC-2	7/19/2011	313.04	38.98	274.06
DC-2	10/17/2011	313.04	40.08	272.96
DC-2	4/2/2012	313.04	40.41	272.63
DC-2	10/21/2014	312.92	40.78	272.14
DC-2	12/9/2015	312.92	41.22	271.70
DC-2	12/13/2016	312.92	40.36	272.56
DC-2	3/13/2017	312.92	39.19	273.73

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-3	10/21/1998	312.98	39.68	273.30
DC-3	2/3/1999	312.98	39.22	273.76
DC-3	4/16/1999	312.98	37.13	275.85
DC-3	12/8/1999	312.98	40.10	272.88
DC-3	4/26/2000	312.98	39.33	273.65
DC-3	8/3/2000	312.98	40.08	272.90
DC-3	11/14/2000	312.98	41.27	271.71
DC-3	3/6/2001	312.98	42.05	270.93
DC-3	6/20/2001	312.98	42.37	270.61
DC-3	9/17/2001	312.98	42.73	270.25
DC-3	12/20/2001	312.98	42.30	270.68
DC-3	3/13/2002	312.98	40.66	272.32
DC-3	6/13/2002	312.98	39.87	273.11
DC-3	9/17/2002	312.98	40.75	272.23
DC-3	12/10/2002	312.98	41.65	271.33
DC-3	3/31/2003	312.98	41.25	271.73
DC-3	9/3/2003	312.98	41.65	271.33
DC-3	3/16/2004	312.98	40.71	272.27
DC-3	9/7/2004	312.98	41.54	271.44
DC-3	2/9/2005	312.98	42.21	270.77
DC-3	4/24/2007	312.98	39.26	273.72
DC-3	8/21/2008	313.23	41.89	271.34
DC-3	11/5/2010	313.23	41.58	271.65
DC-3	2/11/2011	313.23	40.30	272.93
DC-3	5/30/2011	313.23	38.89	274.34
DC-3	7/19/2011	313.23	39.22	274.01
DC-3	10/17/2011	313.23	40.34	272.89
DC-3	4/2/2012	313.23	40.62	272.61
DC-3	10/21/2014	313.11	41.07	272.04
DC-3	12/9/2015	313.11	41.47	271.64
DC-3	12/13/2016	313.11	40.59	272.52
DC-3	3/13/2017	313.11	39.39	273.72

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-4	10/21/1998	312.20	39.96	272.24
DC-4	2/3/1999	312.20	38.37	273.83
DC-4	4/16/1999	312.20	36.34	275.86
DC-4	12/8/1999	312.20	39.32	272.88
DC-4	4/26/2000	312.20	38.55	273.65
DC-4	8/3/2000	312.20	39.33	272.87
DC-4	11/14/2000	312.20	40.52	271.68
DC-4	3/6/2001	312.20	41.29	270.91
DC-4	6/20/2001	312.20	41.60	270.60
DC-4	9/17/2001	312.20	41.89	270.31
DC-4	12/20/2001	312.20	41.49	270.71
DC-4	3/13/2002	312.20	39.86	272.34
DC-4	6/13/2002	312.20	39.11	273.09
DC-4	9/17/2002	312.20	40.00	272.20
DC-4	12/10/2002	312.20	40.92	271.28
DC-4	3/31/2003	312.20	40.44	271.76
DC-4	9/3/2003	312.20	40.88	271.32
DC-4	3/16/2004	312.20	39.94	272.26
DC-4	9/7/2004	312.20	40.81	271.39
DC-4	2/9/2005	312.20	41.42	270.78
DC-4	4/24/2007	312.20	38.50	273.70
DC-4	8/21/2008	312.12	41.13	270.99
DC-4	11/5/2010	312.12	40.81	271.31
DC-4	2/11/2011	312.12	39.51	272.61
DC-4	5/30/2011	312.12	38.13	273.99
DC-4	7/19/2011	312.12	38.48	273.64
DC-4	10/17/2011	312.12	39.57	272.55
DC-4	4/2/2012	312.12	38.82	273.30
DC-4	5/28/2013	312.56	39.50	273.06
DC-4	10/21/2014	312.35	40.34	272.01
DC-4	12/9/2015	312.35	40.34	272.01
DC-4	12/13/2016	312.35	39.84	272.51
DC-4	3/13/2017	312.35	38.59	273.76

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-5	2/3/1999	305.86	32.48	273.38
DC-5	4/16/1999	305.86	30.46	275.40
DC-5	4/11/2006	305.86	33.74	272.12
DC-5	4/24/2007	306.10	32.56	273.54
DC-5	8/21/2008	306.10	35.15	270.95
DC-5	11/5/2010	306.10	34.86	271.24
DC-5	2/11/2011	306.10	33.59	272.51
DC-5	5/30/2011	306.10	32.23	273.87
DC-5	7/19/2011	306.10	32.58	273.52
DC-5	10/17/2011	306.10	33.65	272.45
DC-5	4/2/2012	306.10	33.86	272.24
DC-5	5/28/2013	306.25	33.60	272.65
DC-5	12/13/2016	306.25	33.95	272.30
DC-5	3/13/2017	306.25	32.70	273.55
DC-6	2/3/1999	308.46	35.03	273.43
DC-6	4/16/1999	308.46	32.92	275.54

Table D-2

Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-7	2/3/1999	302.50	29.89	272.61
DC-7	4/16/1999	302.50	28.05	274.45
DC-7	12/8/1999	302.50	30.76	271.74
DC-7	4/26/2000	302.50	30.12	272.38
DC-7	8/3/2000	302.50	30.84	271.66
DC-7	11/14/2000	302.50	31.90	270.60
DC-7	3/6/2001	302.50	32.60	269.90
DC-7	6/20/2001	302.50	32.91	269.59
DC-7	9/17/2001	302.50	33.25	269.25
DC-7	12/20/2001	302.50	32.75	269.75
DC-7	3/13/2002	302.50	31.22	271.28
DC-7	6/13/2002	302.50	30.57	271.93
DC-7	9/17/2002	302.50	31.44	271.06
DC-7	12/10/2002	302.50	32.27	270.23
DC-7	3/31/2003	302.50	31.78	270.72
DC-7	9/3/2003	302.50	32.26	270.24
DC-7	2/9/2005	302.50	32.67	269.83
DC-7	4/11/2006	302.50	31.05	271.45
DC-7	10/26/2006	302.50	32.58	269.92
DC-7	4/24/2007	302.50	29.96	272.54
DC-7	8/21/2008	302.78	32.48	270.30
DC-7	11/5/2010	302.78	32.15	270.63
DC-7	2/11/2011	302.78	30.91	271.87
DC-7	5/30/2011	302.78	29.68	273.10
DC-7	7/19/2011	302.78	30.03	272.75
DC-7	10/17/2011	302.78	31.04	271.74
DC-7	4/2/2012	302.78	31.12	271.66
DC-7	5/28/2013	302.88	30.94	271.94
DC-7	10/21/2014	302.61	31.71	270.90
DC-7	12/16/2015	302.61	31.79	270.82
DC-7	12/13/2016	302.61	31.19	271.42
DC-7	3/13/2017	302.61	30.03	272.58

Table D-2

Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-8	2/3/1999	306.09	33.45	272.64
DC-8	4/16/1999	306.09	31.43	274.66
DC-8	12/8/1999	306.09	34.27	271.82
DC-8	4/26/2000	306.09	33.55	272.54
DC-8	8/3/2000	306.09	34.26	271.83
DC-8	11/14/2000	306.09	35.37	270.72
DC-8	3/6/2001	306.09	36.11	269.98
DC-8	6/20/2001	306.09	36.45	269.64
DC-8	9/17/2001	306.09	36.75	269.34
DC-8	12/20/2001	306.09	36.40	269.69
DC-8	3/13/2002	306.09	34.82	271.27
DC-8	6/13/2002	306.09	34.05	272.04
DC-8	9/17/2002	306.09	34.85	271.24
DC-8	12/10/2002	306.09	35.74	270.35
DC-8	3/31/2003	306.09	35.71	270.38
DC-8	9/3/2003	306.09	35.73	270.36
DC-8	2/9/2005	306.09	36.26	269.83
DC-8	4/11/2006	306.09	34.60	271.49
DC-8	10/26/2006	306.09	36.00	270.09
DC-8	4/24/2007	306.11	33.47	272.64
DC-8	11/5/2010	306.38	35.69	270.69
DC-8	2/11/2011	306.38	34.49	271.89
DC-8	5/30/2011	306.38	33.15	273.23
DC-8	7/19/2011	306.38	33.46	272.92
DC-8	10/17/2011	306.38	34.51	271.87
DC-8	4/2/2012	306.38	34.77	271.61
DC-8	5/28/2013	306.46	34.45	272.01
DC-8	10/21/2014	306.46	35.17	271.29
DC-8	12/9/2015	306.23	35.58	270.65
DC-8	12/13/2016	306.23	34.71	271.52
DC-8	3/13/2017	306.23	33.65	272.58
DC-9A	4/16/1999	307.76	32.19	275.57
DC-9A	12/8/1999	307.76	35.03	272.73
DC-9A	4/26/2000	307.76	34.35	273.41
DC-9A	8/3/2000	307.76	35.11	272.65
DC-9A	11/14/2000	307.76	36.30	271.46
DC-9A	4/11/2006	307.76	35.45	272.31
DC-9A	8/8/2006	307.76	36.25	271.51
DC-9A	11/2/2006	307.76	36.90	270.86
DC-9A	4/24/2007	307.75	34.30	273.45
DC-9A	8/21/2008	308.02	36.92	271.10

Table D-2

Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)

Table D-2

Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-9B	4/16/1999	307.91	32.34	275.57
DC-9B	3/6/2001	307.91	37.22	270.69
DC-9B	6/20/2001	307.91	37.52	270.39
DC-9B	9/17/2001	307.91	37.87	270.04
DC-9B	12/20/2001	307.91	37.45	270.46
DC-9B	4/11/2006	307.91	35.65	272.26
DC-9B	8/8/2006	307.91	36.40	271.51
DC-9B	10/26/2006	307.91	37.15	270.76
DC-9B	4/24/2007	307.94	34.45	273.49
DC-9B	8/21/2008	308.16	37.05	271.11
DC-10A	4/16/1999	307.59	31.85	275.74
DC-10A	12/8/1999	307.59	34.82	272.77
DC-10A	4/26/2000	307.59	34.05	273.54
DC-10A	8/3/2000	307.59	34.86	272.73
DC-10A	11/14/2000	307.59	36.05	271.54
DC-10A	2/11/2011	307.72	34.99	272.73
DC-10A	5/30/2011	307.72	33.65	274.07
DC-10A	7/19/2011	307.72	34.07	273.65
DC-10A	10/17/2011	307.72	35.12	272.60
DC-10A	4/2/2012	307.72	35.23	272.49
DC-10A	5/28/2013	307.93	35.04	272.89
DC-10A	10/21/2014	307.73	35.83	271.90
DC-10A	12/9/2015	307.73	36.19	271.54
DC-10A	12/13/2016	307.73	35.35	272.38
DC-10A	3/13/2017	307.73	34.09	273.64

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-10B	4/16/1999	307.66	31.92	275.74
DC-10B	3/6/2001	307.66	36.89	270.77
DC-10B	6/20/2001	307.66	37.46	270.20
DC-10B	9/17/2001	307.66	37.55	270.11
DC-10B	12/20/2001	307.66	37.03	270.63
DC-10B	2/9/2005	307.66	36.98	270.68
DC-10B	4/11/2006	307.66	35.24	272.42
DC-10B	4/24/2007	307.66	34.08	273.58
DC-10B	8/21/2008	307.89	36.74	271.15
DC-10B	11/5/2010	307.89	36.40	271.49
DC-10B	2/11/2011	307.89	35.06	272.83
DC-10B	5/30/2011	307.89	33.72	274.17
DC-10B	7/19/2011	307.89	34.09	273.80
DC-10B	10/17/2011	307.89	35.15	272.74
DC-10B	4/2/2012	307.89	35.34	272.55
DC-10B	12/13/2016	307.89	35.45	272.44
DC-11	4/24/2007	311.02	37.29	273.73
DC-11	11/5/2010	311.02	39.59	271.43
DC-11	2/11/2011	311.02	38.36	272.66
DC-11	5/30/2011	311.02	36.91	274.11
DC-11	4/2/2012	311.02	38.67	272.35
DC-11	4/14/2014	311.25	38.73	272.52
DC-11	10/21/2014	311.25	39.00	272.25
DC-11	12/9/2015	311.25	39.48	271.77
DC-11	12/13/2016	311.25	38.56	272.69
DC-11	3/13/2017	311.25	37.49	273.76
DC-12	4/24/2007	310.90	37.54	273.36
DC-12	8/21/2008	310.90	40.05	270.85
DC-12	11/5/2010	310.90	39.79	271.11
DC-12	2/11/2011	310.90	38.60	272.30
DC-12	5/30/2011	310.90	37.17	273.73
DC-12	7/19/2011	310.90	37.45	273.45
DC-12	10/17/2011	310.90	38.54	272.36
DC-12	4/2/2012	310.90	38.91	271.99
DC-12	5/28/2013	311.25	38.50	272.75
DC-12	4/14/2014	311.25	38.93	272.32
DC-12	10/27/2014	311.25	39.23	272.02
DC-12	12/9/2015	311.25	39.70	271.55
DC-12	12/13/2016	311.25	38.80	272.45
DC-12	3/13/2017	311.25	37.72	273.53

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-13	4/24/2007	310.85	36.64	274.21
DC-13	8/21/2008	310.85	39.13	271.72
DC-13	11/5/2010	310.85	38.88	271.97
DC-13	2/11/2011	310.85	37.68	273.17
DC-13	5/30/2011	310.85	36.28	274.57
DC-13	7/19/2011	310.85	36.57	274.28
DC-13	10/17/2011	310.85	37.65	273.20
DC-13	4/2/2012	310.85	38.01	272.84
DC-13	5/28/2013	310.20	37.61	272.59
DC-13	4/14/2014	310.20	38.02	272.18
DC-13	10/27/2014	310.20	38.37	271.83
DC-13	12/9/2015	310.20	38.37	271.83
DC-13	12/13/2016	310.20	37.89	272.31
DC-13	3/13/2017	310.20	36.82	273.38
DC-14	4/24/2007	308.60	36.15	272.45
DC-14	8/21/2008	308.60	38.59	270.01
DC-14	11/5/2010	308.60	38.34	270.26
DC-14	2/11/2011	308.60	37.18	271.42
DC-14	5/30/2011	308.60	35.83	272.77
DC-14	7/19/2011	308.60	36.12	272.48
DC-14	10/17/2011	308.60	37.14	271.46
DC-14	4/2/2012	308.60	37.49	271.11
DC-14	5/28/2013	308.94	37.10	271.84
DC-14	10/21/2014	308.94	37.77	271.17
DC-14	12/9/2015	308.94	38.23	270.71
DC-14	12/13/2016	308.94	37.40	271.54
DC-14	3/13/2017	308.94	36.38	272.56
DC-15	4/24/2007	307.54	34.64	272.90
DC-15	11/5/2010	307.54	36.93	270.61
DC-15	2/11/2011	307.54	35.68	271.86
DC-15	5/30/2011	307.54	34.32	273.22
DC-15	7/19/2011	307.54	34.62	272.92
DC-15	10/17/2011	307.54	35.68	271.86
DC-15	4/2/2012	307.54	35.94	271.60
DC-15	5/28/2013	307.89	35.61	272.28
DC-15	4/14/2014	307.89	36.02	271.87
DC-15	10/21/2014	307.89	36.35	271.54
DC-15	12/9/2015	307.89	36.79	271.10
DC-15	12/13/2016	307.89	35.91	271.98
DC-15	3/13/2017	307.89	34.82	273.07

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-16	4/24/2007	307.12	33.81	273.31
DC-16	8/21/2008	307.12	36.41	270.71
DC-16	11/5/2010	307.12	36.10	271.02
DC-16	2/11/2011	307.12	34.85	272.27
DC-16	5/30/2011	307.12	33.48	273.64
DC-16	7/19/2011	307.12	33.83	273.29
DC-16	10/17/2011	307.12	34.91	272.21
DC-16	4/2/2012	307.12	35.14	271.98
DC-16	12/13/2016	307.12	35.15	271.97
DC-16	3/13/2017	307.12	34.80	272.32
DC-17	4/24/2007	304.89	31.65	273.24
DC-17	5/28/2013	305.16	32.65	272.51
DC-17	10/21/2014	305.16	33.44	271.72
DC-17	12/16/2015	305.16	33.58	271.58
DC-17	3/13/2017	305.16	31.80	273.36
DC-18	4/24/2007	309.37	36.10	273.27
DC-18	5/28/2013	309.64	37.05	272.59
DC-18	10/21/2014	309.51	37.81	271.70
DC-18	12/9/2015	309.51	38.26	271.25
DC-18	12/13/2016	309.51	37.35	272.16
DC-18	3/13/2017	309.51	36.26	273.25
DC-19	8/21/2008	313.53	42.02	271.51
DC-19	11/5/2010	313.53	41.75	271.78
DC-19	2/11/2011	313.53	40.52	273.01
DC-19	5/30/2011	313.53	39.06	274.47
DC-19	7/19/2011	313.53	39.36	274.17
DC-19	10/17/2011	313.53	40.47	273.06
DC-19	4/2/2012	313.53	40.85	272.68
DC-19	5/28/2013	313.62	40.40	273.22
DC-19	12/9/2015	313.62	41.66	271.96
DC-19	12/13/2016	313.62	40.73	272.89
DC-19	3/13/2017	313.62	39.65	273.97

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
DC-20	5/28/2013	310.92	38.42	272.50
DC-20	4/14/2014	310.92	38.86	272.06
DC-20	10/21/2014	310.92	39.12	271.80
DC-20	12/15/2015	310.92	39.44	271.48
DC-20	12/13/2016	310.92	38.69	272.23
DC-20	3/13/2017	310.92	37.65	273.27
KMW-1	4/24/2007	311.21	38.15	273.06
KMW-1	8/21/2008	311.21	40.60	270.61
KMW-1	11/5/2010	311.21	40.37	270.84
KMW-1	2/11/2011	311.21	39.19	272.02
KMW-1	5/30/2011	311.21	37.79	273.42
KMW-1	7/19/2011	311.21	38.06	273.15
KMW-1	10/17/2011	311.21	39.13	272.08
KMW-1	4/2/2012	311.21	39.50	271.71
KMW-1	5/28/2013	311.59	39.08	272.51
KMW-1	10/21/2014	311.59	39.81	271.78
KMW-1	12/9/2015	311.59	40.29	271.30
KMW-1	12/13/2016	311.59	39.36	272.23
KMW-1	3/13/2017	311.59	38.34	273.25
KMW-2	4/24/2007	306.90	33.33	273.57
KMW-2	8/21/2008	306.90	35.96	270.94
KMW-2	11/5/2010	306.90	34.59	272.31
KMW-2	2/11/2011	306.90	34.32	272.58
KMW-2	5/30/2011	306.90	32.96	273.94
KMW-2	7/19/2011	306.90	33.30	273.60
KMW-2	10/17/2011	306.90	34.39	272.51
KMW-2	4/2/2012	306.90	34.59	272.31
KMW-2	5/28/2013	307.25	34.30	272.95
KMW-2	10/21/2014	307.04	35.14	271.90
KMW-2	12/9/2015	307.04	35.51	271.53
KMW-2	12/13/2016	307.04	34.70	272.34
KMW-2	3/13/2017	307.04	33.42	273.62

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
KMW-3	4/24/2007	296.92	24.51	272.41
KMW-3	8/21/2008	296.92	27.01	269.91
KMW-3	11/5/2010	296.92	26.37	270.55
KMW-3	5/30/2011	296.92	24.22	272.70
KMW-3	7/19/2011	296.92	24.61	272.31
KMW-3	10/17/2011	296.92	25.58	271.34
KMW-3	4/2/2012	296.92	25.59	271.33
KMW-3	10/21/2014	296.92	26.25	270.67
KMW-3	12/13/2016	296.92	25.69	271.23
KMW-3	3/13/2017	296.92	24.33	272.59
KMW-4	4/24/2007	299.45	25.95	273.50
KMW-4	8/21/2008	299.45	28.62	270.83
KMW-4	11/5/2010	299.45	28.22	271.23
KMW-4	2/11/2011	299.45	26.87	272.58
KMW-4	5/30/2011	299.45	25.59	273.86
KMW-4	7/19/2011	299.45	25.99	273.46
KMW-4	10/17/2011	299.45	27.07	272.38
KMW-4	4/2/2012	299.45	27.10	272.35
KMW-4	10/21/2014	299.57	27.80	271.77
KMW-4	12/9/2015	299.57	28.08	271.49
KMW-4	12/13/2016	299.57	27.24	272.33
KMW-4	3/13/2017	299.57	25.90	273.67
KMW-5	4/24/2007	297.10	24.32	272.78
KMW-5	8/21/2008	297.10	26.85	270.25
KMW-5	11/5/2010	297.10	26.49	270.61
KMW-5	2/11/2011	297.10	25.21	271.89
KMW-5	5/30/2011	297.10	24.00	273.10
KMW-5	7/19/2011	297.10	24.41	272.69
KMW-5	10/17/2011	297.10	25.41	271.69
KMW-5	4/2/2012	297.10	25.37	271.73
KMW-5	5/28/2013	297.10	25.30	271.80
KMW-5	10/21/2014	297.10	26.09	271.01
KMW-5	12/9/2015	297.10	26.30	270.80
KMW-5	12/13/2016	297.10	25.52	271.58
KMW-5	3/13/2017	297.10	24.30	272.80

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
KMW-5D	4/24/2007	296.94	24.19	272.75
KMW-5D	8/21/2008	296.94	26.72	270.22
KMW-5D	11/5/2010	296.94	26.35	270.59
KMW-5D	2/11/2011	296.94	25.10	271.84
KMW-5D	5/30/2011	296.94	23.89	273.05
KMW-5D	7/19/2011	296.94	24.28	272.66
KMW-5D	10/17/2011	296.94	25.28	271.66
KMW-5D	4/2/2012	296.94	25.19	271.75
KMW-5D	12/13/2016	296.94	25.40	271.54
KMW-5D	3/13/2017	296.94	25.19	271.75
KMW-6	4/24/2007	294.70	22.40	272.30
KMW-6	8/21/2008	294.70	24.90	269.80
KMW-6	11/5/2010	294.70	24.51	270.19
KMW-6	2/11/2011	294.70	23.26	271.44
KMW-6	5/30/2011	294.70	22.12	272.58
KMW-6	7/19/2011	294.70	22.52	272.18
KMW-6	10/17/2011	294.70	23.48	271.22
KMW-6	4/2/2012	294.70	23.39	271.31
KMW-6	10/21/2014	294.81	21.05	273.76
KMW-6	12/9/2015	294.81	24.31	270.50
KMW-6	12/13/2016	294.81	23.53	271.28
KMW-6	3/13/2017	294.81	22.34	272.47
KMW-7	4/24/2007	301.32	29.22	272.10
KMW-7	8/21/2008	301.32	31.65	269.67
KMW-7	11/5/2010	301.32	31.36	269.96
KMW-7	2/11/2011	301.32	30.14	271.18
KMW-7	5/30/2011	301.32	28.92	272.40
KMW-7	7/19/2011	301.32	29.27	272.05
KMW-7	10/17/2011	301.32	30.25	271.07
KMW-7	4/2/2012	301.32	30.35	270.97
KMW-7	10/21/2014	301.43	30.88	270.55
KMW-7	12/15/2015	301.43	31.03	270.40
KMW-7	12/13/2016	301.43	30.40	271.03
KMW-7	3/13/2017	301.43	28.98	272.45

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Historical Summary of Groundwater Elevations (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Location	Date	Well Casing Elevation (feet NAVD88)	Depth to Water (feet below well casing)	Water Level Elevation (feet NAVD88)
KMW-8	4/24/2007	308.08	35.73	272.35
KMW-8	8/21/2008	308.08	38.14	269.94
KMW-8	11/5/2010	308.08	37.87	270.21
KMW-8	2/11/2011	308.08	36.72	271.36
KMW-8	5/30/2011	308.08	35.40	272.68
KMW-8	7/19/2011	308.08	35.68	272.40
KMW-8	10/17/2011	308.08	36.71	271.37
KMW-8	4/2/2012	308.08	37.02	271.06
KMW-8	10/21/2014	308.15	37.34	270.81
KMW-8	12/9/2015	308.15	37.76	270.39
KMW-8	12/13/2016	308.15	36.92	271.23
KMW-8	3/13/2017	308.15	35.94	272.21
KMW-9	4/24/2007	310.18	36.49	273.69
KMW-9	11/5/2010	310.18	38.78	271.40
KMW-9	2/11/2011	310.18	37.51	272.67
KMW-9	5/30/2011	310.18	36.11	274.07
KMW-9	7/19/2011	310.18	36.49	273.69
KMW-9	10/17/2011	310.18	37.51	272.67
KMW-9	4/2/2012	310.18	37.84	272.34
KMW-9	4/14/2014	310.53	37.91	272.62
KMW-9	10/21/2014	310.33	38.24	272.09
KMW-9	12/9/2015	310.33	38.71	271.62
KMW-9	12/13/2016	310.33	37.79	272.54
KMW-9	3/13/2017	310.33	36.65	273.68

NOTES:

1. '-- = not measured or not applicable.
2. Well monument types: flush grade monuments and above ground (AG) monuments.
3. Depth to water is measured from top of well casing.
4. Elevations are reported relative to North American Vertical Datum of 1988 (NAVD 88).
5. Top of casing (TOC) elevations were surveyed by D.R. Strong Consulting Engineers, Inc. in February and May 213 and by Lanktree Land Surveying, Inc. in July 215.

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Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
Shallow Monitoring Wells				
MW-1	12/10/1999	**21.6**		
MW-1	7/25/2005	**15**		
MW-1	4/11/2006	**14**		
MW-1	10/26/2006	**11**		
MW-1	4/25/2007	**13**		
* Monitoring well cannot be located				
MW-2	12/10/1999	**16.7**		
MW-2	4/5/2012	**7.1**		
MW-2	5/30/2013	**2.4**		
MW-2	4/14/2014	**3.2**		
MW-2	10/24/2014	**1.4**		
MW-2	12/11/2015	1.00	U	
MW-2	3/13/2017	**6.02**		
MW-3	4/14/2008	**2.31**		Chloroform (0.990)
MW-3	11/1/2010	**2.9**		
MW-3	5/31/2011	2.0	U	
MW-3	7/20/2011	2.0	U	
MW-3	10/18/2011	**6.1**		
MW-3	4/4/2012	**5.8**		
MW-3	5/29/2013	**4.0**		
MW-3	10/24/2014	**1.0**		
MW-3	12/10/2015	**1.34**		
MW-3	12/14/2016	1.00	U	
MW-3	3/13/2017	1.00	U	
MW-4	4/14/2008	**33**		Chloroform (0.780), cis-1,2-DCE (0.320), TCE (0.490)
MW-4	3/9/2010	**7.8**		
MW-4	11/1/2010	**16**		
MW-4	5/31/2011	**10**		
MW-4	7/21/2011	**25**		
MW-4	10/19/2011	**21**		
MW-4	4/4/2012	**11**		
MW-4	5/29/2013	**8.1**		
MW-4	10/29/2014	**7.3**		
MW-4	12/14/2015	**4.89**		
MW-4	12/14/2016	1.00	U	
MW-4	3/14/2017	1.00	U	
MW-5	4/11/2008	**0.470**		
MW-5	4/2/2012	2.0	U	

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
MW-6	4/15/2008	2.0	U	
MW-6	4/2/2012	2.0	U	
MW-7	4/16/2008	**22.4**		
MW-7	4/2/2012	**14**		
MW-7	10/29/2014	**20**		
MW-7	12/15/2015	**7.42**		
MW-7	3/17/2017	**8.08**		
MW-8	8/21/2008	**0.20**	J	
MW-8	4/2/2012	2.0	U	
MW-9	8/21/2008	**0.10**	J	
MW-9	4/2/2012	2.0	U	
MW-9	10/24/2014	1.0	U	
MW-9	12/10/2015	1.00	U	
MW-9	3/13/2017	1.00	U	
MW-10	2/8/2011	**10**		
MW-10	5/31/2011	2.0	U	
MW-10	7/20/2011	**4.1**		
MW-10	10/18/2011	**4.9**		
MW-10	4/6/2012	**6.7**		
MW-10	5/29/2013	**4.1**		
MW-10	10/24/2014	**1.7**		
MW-10	12/11/2015	1.00	U	TCE (3.22)
MW-10	12/14/2016	**1.13**		
MW-10	3/14/2017	**1.09**		
MW-11	2/8/2011	**47**		
MW-11	5/31/2011	2.0	U	Acetone (51)
MW-11	7/20/2011	2.0	U	Acetone (154)
MW-11	10/18/2011	2.0	U	Acetone (130)
MW-11	4/6/2012	**29**		
MW-11	5/31/2013	**22**		
MW-11	10/29/2014	**15**		
MW-11	12/14/2015	**11.9**		
MW-11	12/15/2016	**7.99**		
MW-11	3/16/2017	**4.66**		
MW-12	4/4/2012	2.0	U	
MW-12	5/28/2013	1.0	U	
MW-12	10/23/2014	1.0	U	
MW-12	12/10/2015	1.00	U	
MW-12	12/14/2016	1.00	U	
MW-12	3/13/2017	1.00	U	

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Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
MW-13	4/3/2012	2.0	U	
MW-13	5/30/2013	1.0	U	
MW-13	10/23/2014	1.0	U	
MW-13	12/10/2015	1.00	U	
MW-13	12/13/2016	1.00	U	
MW-13	3/14/2017	1.00	U	
MW-14	4/5/2012	2.0	U	
MW-14	5/29/2013	1.0	U	
MW-14	10/30/2014	1.0	U	
MW-14	12/11/2015	1.00	U	
MW-14	3/14/2017	1.00	U	
MW-15	4/5/2012	2.0	U	
MW-15	5/28/2013	1.0	U	
MW-15	4/14/2014	1.0	U	
MW-15	10/23/2014	1.0	U	
MW-15	12/10/2015	1.00	U	
MW-15	3/14/2017	1.00	U	
MW-16	5/31/2013	**2.5**		
MW-16	10/23/2014	**1.3**		
MW-16	12/11/2015	**1.20**		
MW-16	12/13/2016	**1.63**		
MW-16	3/16/2017	**1.13**		
DC-1	10/21/1998	**0.60**		Toluene (0.8)
DC-1	2/3/1999	0.5	U	
DC-1	4/7/1999	0.5	U	Toluene (8.7)
DC-1	12/8/1999	1.0	U	
DC-1	4/26/2000	1.0	U	
DC-1	8/3/2000	1.0	U	
DC-1	11/14/2000	1.0	U	
DC-1	3/6/2001	1.0	U	
DC-1	6/20/2001	1.0	U	
DC-1	9/17/2001	1.0	U	
DC-1	12/20/2001	1.0	U	
DC-1	3/13/2002	1.0	U	
DC-1	9/17/2002	1.0	U	
DC-1	12/10/2002	1.0	U	
DC-1	3/31/2003	1.0	U	
DC-1	9/3/2003	1.0	U	
DC-1	3/16/2004	1.0	U	
DC-1	9/7/2004	1.0	U	
DC-1	4/25/2007	0.2	U	
DC-1	4/4/2012	2.0	U	

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Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
DC-2	10/21/1998	**2.4**		Chloroform (1.8), Toluene (0.6)
DC-2	2/3/1999	**0.7**		
DC-2	4/7/1999	0.5	U	Chloroform (1.4), Toluene (14)
DC-2	12/8/1999	0.5	U	
DC-2	4/26/2000	1.0	U	
DC-2	8/3/2000	1.0	U	
DC-2	11/14/2000	1.0	U	
DC-2	3/6/2001	1.0	U	
DC-2	6/20/2001	1.0	U	
DC-2	9/17/2001	1.0	U	
DC-2	12/20/2001	1.0	U	
DC-2	3/13/2002	**4.0**		
DC-2	6/13/2002	1.0	U	
DC-2	9/17/2002	1.0	U	
DC-2	12/10/2002	**0.50**		
DC-2	3/31/2003	**3.37**		
DC-2	9/3/2003	1.0	U	
DC-2	3/16/2004	**0.74**		
DC-2	9/7/2004	1.0	U	
DC-2	4/26/2007	**1.2**		
DC-2	4/14/2008	**0.340**		Chloroform (1.60)
DC-2	11/3/2010	2.0	U	
DC-2	5/31/2011	2.0	U	
DC-2	7/21/2011	2.0	U	
DC-2	10/18/2011	2.0	U	
DC-2	4/4/2012	2.0	U	
DC-3	10/28/1998	**54**		Chloroform (1.9), Toluene (0.6)
DC-3	2/4/1999	**25**		
DC-3	4/8/1999	**36**		Chloroform (1.2), Toluene (15)
DC-3	12/8/1999	**45**		
DC-3	4/26/2000	**56**		
DC-3	8/3/2000	**25**		
DC-3	11/14/2000	1.0	U	
DC-3	3/6/2001	**4.7**		
DC-3	6/20/2001	**2.8**		
DC-3	9/17/2001	1.0	U	
DC-3	12/20/2001	**9.2**		
DC-3	3/13/2002	**40.0**		
DC-3	6/13/2002	**42.3**		
DC-3	9/17/2002	**33.4**		
DC-3	12/10/2002	**5.40**		
DC-3	3/31/2003	**7.34**		
DC-3	9/3/2003	**2.08**		
DC-3	3/16/2004	1.0	U	
DC-3	9/7/2004	**3.43**		

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Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
DC-3	4/26/2007	**42.0**		
DC-3	4/14/2008	**27.8**		Chloroform (1.50)
DC-3	3/9/2010	2.0	U	
DC-3	11/3/2010	2.0	U	
DC-3	5/30/2011	**3.9**		
DC-3	7/20/2011	**12**		
DC-3	10/18/2011	**6.7**		
DC-3	4/4/2012	**2.9**		
DC-3	10/27/2014	**1.4**		
DC-3	12/11/2015	**1.49**		
DC-3	12/14/2016	1.00	U	
DC-3	3/14/2017	**2.11**		
DC-4	10/28/1998	**227**		Chloroform (0.9), Toluene (0.7)
DC-4	2/4/1999	**144**		
DC-4	4/8/1999	**110**		Toluene (2.6)
DC-4	12/8/1999	**71**		
DC-4	4/26/2000	**120**		
DC-4	8/3/2000	**42**		
DC-4	11/14/2000	**64**		
DC-4	3/6/2001	**52**		TCE (3.0)
DC-4	6/20/2001	**40**		
DC-4	9/17/2001	**23**		
DC-4	12/20/2001	**15**		
DC-4	3/13/2002	**55**		
DC-4	6/13/2002	**17.9**		
DC-4	9/17/2002	**28.8**		
DC-4	12/10/2002	**22.4**		
DC-4	3/31/2003	**12.5**		
DC-4	9/3/2003	**14.1**		
DC-4	3/16/2004	**19.8**		
DC-4	9/7/2004	**18.5**		
DC-4	4/26/2007	**19.0**		
DC-4	4/11/2008	**30.2**		Chloroform (1.2)
DC-4	3/9/2010	**9.2**		
DC-4	11/3/2010	**13**		
DC-4	5/31/2011	2.0	U	Acetone (46)
DC-4	7/20/2011	2.0	U	Acetone (77)
DC-4	10/18/2011	**22**		
DC-4	4/4/2012	**22**		
DC-4	5/30/2013	**11**		
DC-4	10/29/2014	**13**		
DC-4	12/14/2015	**5.49**		
DC-4	12/14/2016	1.00	U	
DC-4	3/14/2017	1.00	U	

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)	Other VOCs detected (µg/l)
DC-6	2/4/1999	**5.1**	
DC-6	4/8/1999	**3.7**	Chloroform(1.3), Toluene (2.3)
* Monitoring well cannot be located			
DC-7	2/4/1999	**74**	
DC-7	4/8/1999	**64**	Toluene (1.3)
DC-7	12/8/1999	**107**	
DC-7	4/26/2000	**130**	
DC-7	8/3/2000	**50**	
DC-7	11/14/2000	**130**	
DC-7	3/6/2001	**140**	
DC-7	6/20/2001	**96**	
DC-7	9/17/2001	**81**	
DC-7	12/20/2001	**47**	
DC-7	3/13/2002	**31**	
DC-7	6/13/2002	**41.5**	
DC-7	9/17/2002	**77.7**	
DC-7	12/10/2002	**91.8**	
DC-7	3/31/2003	**40.1**	
DC-7	9/3/2003	**57.4**	
DC-7	7/25/2005	**37.0**	
DC-7	4/11/2006	**23.0**	
DC-7	10/26/2006	**51.0**	
DC-7	4/24/2007	**27.0**	
DC-7	4/16/2008	**50.8**	
DC-7	11/3/2010	**34**	
DC-7	6/1/2011	**15**	
DC-7	7/21/2011	**38**	
DC-7	10/18/2011	**42**	
DC-7	4/5/2012	**18**	
DC-7	5/30/2013	**15**	
DC-7	10/30/2014	**23**	
DC-7	12/16/2015	**13.3**	
DC-7	3/17/2017	**10.4**	
DC-8	2/4/1999	**56**	
DC-8	4/8/1999	**48**	Toluene (1.2)
DC-8	12/8/1999	**98**	
DC-8	4/26/2000	**87**	
DC-8	8/3/2000	**70**	
DC-8	11/14/2000	**130**	
DC-8	3/6/2001	**82**	
DC-8	6/20/2001	**80**	
DC-8	9/17/2001	**62**	
DC-8	12/20/2001	**50**	
DC-8	3/13/2002	**31**	
DC-8	6/13/2002	**26.6**	
DC-8	9/17/2002	**38.4**	
DC-8	12/10/2002	**53.1**	
DC-8	3/31/2003	**36.4**	

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)	Other VOCs detected (µg/l)
DC-8	9/3/2003	**34.7**	
DC-8	7/25/2005	**26.0**	
DC-8	4/11/2006	**14.0**	
DC-8	10/26/2006	**28.0**	
DC-8	4/24/2007	**24.0**	
DC-8	4/16/2008	**39.4**	
DC-8	11/3/2010	**25**	
DC-8	6/1/2011	**11**	
DC-8	7/21/2011	**25**	
DC-8	10/19/2011	**26**	
DC-8	4/5/2012	**18**	
DC-8	5/30/2013	**11**	
DC-8	10/30/2014	**18**	
DC-8	12/16/2015	**8.61**	
DC-8	3/16/2017	**9.69**	
DC-9A	4/8/1999	**135**	Toluene (3.2)
DC-9A	12/8/1999	**73**	
DC-9A	4/26/2000	**240**	
DC-9A	8/3/2000	**110**	
DC-9A	4/11/2006	**78**	
DC-9A	8/8/2006	**49**	
DC-9A	11/2/2006	2.9	
DC-9A	4/26/2007	**33**	
* Monitoring well cannot be located			
DC-10A	4/8/1999	**150**	Toluene (1.7)
DC-10A	12/8/1999	**73**	TCE (1.1)
DC-10A	4/26/2000	**210**	
DC-10A	4/5/2012	**41**	
DC-10A	5/31/2013	**19**	
DC-10A	10/30/2014	**17**	
DC-10A	12/15/2016	**10.8**	
DC-10A	3/17/2017	**8.62**	
DC-11	4/26/2007	**12**	
DC-11	3/9/2010	**4.6**	
DC-11	11/1/2010	**4.8**	
DC-11	4/4/2012	**3.1**	
DC-11	4/15/2014	**1.2**	
DC-11	10/27/2014	**1.4**	
DC-11	12/11/2015	**1.48**	
DC-11	3/15/2017	**1.97**	

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Monitoring Well	Date	PCE (µg/l)	Other VOCs detected (µg/l)
DC -12	4/25/2007	**16**	
DC-12	4/4/2012	**3.7**	
DC-12	5/30/2013	**2.3**	
DC-12	4/15/2014	**1.4**	
DC-12	10/27/2014	**1.8**	
DC-12	12/14/2015	**2.04**	
DC-12	3/15/2017	**2.02**	
DC-13	4/25/2007	**15**	
DC-13	4/16/2008	**23**	
DC-13	3/1/2010	**10**	
DC-13	11/2/2010	**9.2**	
DC-13	4/5/2012	**6.4**	
DC-13	5/30/2013	**1.7**	
DC-13	4/14/2014	**3.2**	
DC-13	10/27/2014	**2.7**	
DC-13	12/14/2015	**2.78**	
DC-13	3/15/2017	**4.32**	
DC-14	4/25/2007	**11**	
DC-14	4/3/2012	**11**	
DC-14	5/30/2013	**6.0**	
DC-14	10/29/2014	**19**	
DC-14	12/15/2015	**6.02**	
DC-14	3/16/2017	**6.20**	
DC-15	4/24/2007	**11**	
DC-15	4/5/2012	**20**	
DC-15	4/15/2014	**10**	
DC-15	10/30/2014	**5.8**	
DC-15	12/16/2015	**5.93**	
DC-15	3/16/2017	**8.96**	
DC-17	4/25/2007	**47**	
DC-17	4/16/2008	**74.6**	
DC-17	5/31/2013	**21**	
DC-17	10/23/2014	**17**	
DC-17	12/16/2015	**15.1**	
DC-17	3/17/2017	**13.9**	
DC-18	4/25/2007	**19**	
DC-18	4/5/2012	**7.2**	
DC-18	5/30/2013	**4.8**	
DC-18	10/28/2014	**3.0**	
DC-18	12/14/2015	**3.19**	
DC-18	3/16/2017	**3.24**	

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
DC-19	6/4/2007	**0.79**		
DC-19	4/14/2008	**0.66**		
DC-19	4/4/2012	2.0	U	
DC-20	5/30/2013	**1.7**		
DC-20	4/14/2014	**1.4**		
DC-20	10/28/2014	1.0	U	
DC-20	12/15/2015	**1.74**		1,2-Dichlororpropane (1.82)
DC-20	3/15/2017	**2.00**		
KMW-1	4/11/2006	1.0	U	
KMW-1	10/26/2006	1.0	U	
KMW-1	4/25/2007	0.2	U	
KMW-1	4/14/2008	0.2	U	Chloroform (0.450)
KMW-1	4/3/2012	2.0	U	
KMW-2	6/12/2006	**130**		
KMW-2	8/8/2006	**130**		
KMW-2	10/26/2006	**190**		
KMW-2	4/24/2007	**63**		
KMW-2	4/16/2008	**96**		
KMW-2	3/8/2010	**81**		
KMW-2	11/3/2010	**74**		
KMW-2	6/1/2011	**12**		Acetone (140)
KMW-2	7/20/2011	**44**		
KMW-2	10/19/2011	**40**		
KMW-2	4/6/2012	**25**		
KMW-2	5/31/2013	**22**		
KMW-2	10/29/2014	**18**		
KMW-2	12/15/2015	**15**		
KMW-2	12/15/2016	**1.18**		
KMW-2	3/14/2017	1.00	U	
KMW-3	6/12/2006	**20**		
KMW-3	10/26/2006	**13**		
KMW-3	4/24/2007	**9.9**		
KMW-3	11/2/2010	**11**		
KMW-3	5/31/2011	**6.2**		
KMW-3	7/20/2011	**12**		
KMW-3	10/18/2011	**11**		
KMW-3	4/3/2012	**6.8**		
KMW-3	10/28/2014	1.0	U	
KMW-3	3/14/2017	**3.23**		
KMW-4	4/25/2007	**0.73**		
KMW-4	4/3/2012	2.0	U	

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Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
KMW-5	4/25/2007	**0.82**		
KMW-5	4/3/2012	2.0	U	
KMW-6	4/24/2007	**3.8**		
KMW-6	4/3/2012	2.0	U	
KMW-7	4/24/2007	**3.8**		
KMW-7	4/15/2008	**3.9**		
KMW-7	11/3/2010	2.0	U	
KMW-7	5/30/2011	**2.3**		
KMW-7	7/20/2011	2.0	U	
KMW-7	10/18/2011	2.0	U	
KMW-7	4/3/2012	**3.3**		
KMW-7	10/28/2014	**2.0**		p-isopropyltoluene (2.8)
KMW-7	12/15/2015	**2.17**		
KMW-7	3/16/2017	**1.17**		
KMW-8	4/24/2007	**11**		
KMW-8	4/15/2008	**17.4**		
KMW-8	4/3/2012	**10**		
KMW-8	10/28/2014	**5.9**		
KMW-8	12/15/2015	**3.98**		
KMW-8	3/16/2017	**6.71**		
KMW-9	4/26/2007	**9.3**		
KMW-9	3/8/2010	**4.4**		
KMW-9	11/4/2010	**2.8**		
KMW-9	4/5/2012	**4.0**		
KMW-9	4/15/2014	**1.0**		
KMW-9	10/27/2014	1.0	U	
KMW-9	12/10/2015	**1.47**		
KMW-9	3/15/2017	**2.07**		
Deep Monitoring Wells				
DC-5	2/4/1999	**2.4**		
DC-5	4/8/1999	**1.6**		Chloroform (2.6), Toluene (1.0)
DC-5	7/25/2005	**37**		
DC-5	4/11/2006	**1.3**		
DC-5	4/26/2007	**2.1**		
DC-5	11/3/2010	**2.1**		
DC-5	5/30/2011	2.0	U	
DC-5	7/19/2011	2.0	U	
DC-5	10/18/2011	2.0	U	
DC-5	4/6/2012	2.0	U	
DC-5	5/29/2013	1.0	U	

Table D-3

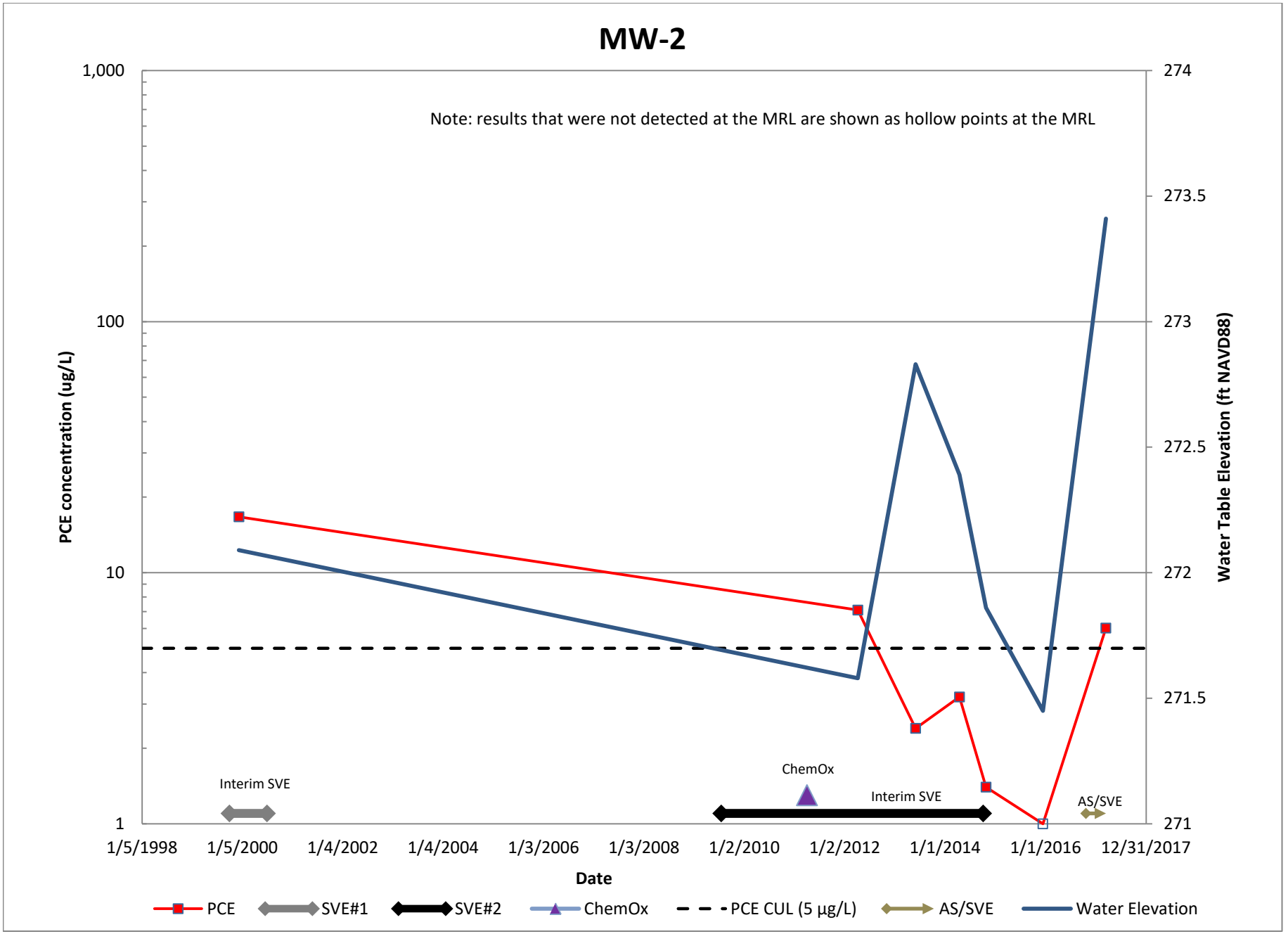
Historical Summary of Groundwater Analytical Results (1999 - 2017)
Manhattan Village Shopping Center and Harris Properties
Normandy Park, Washington

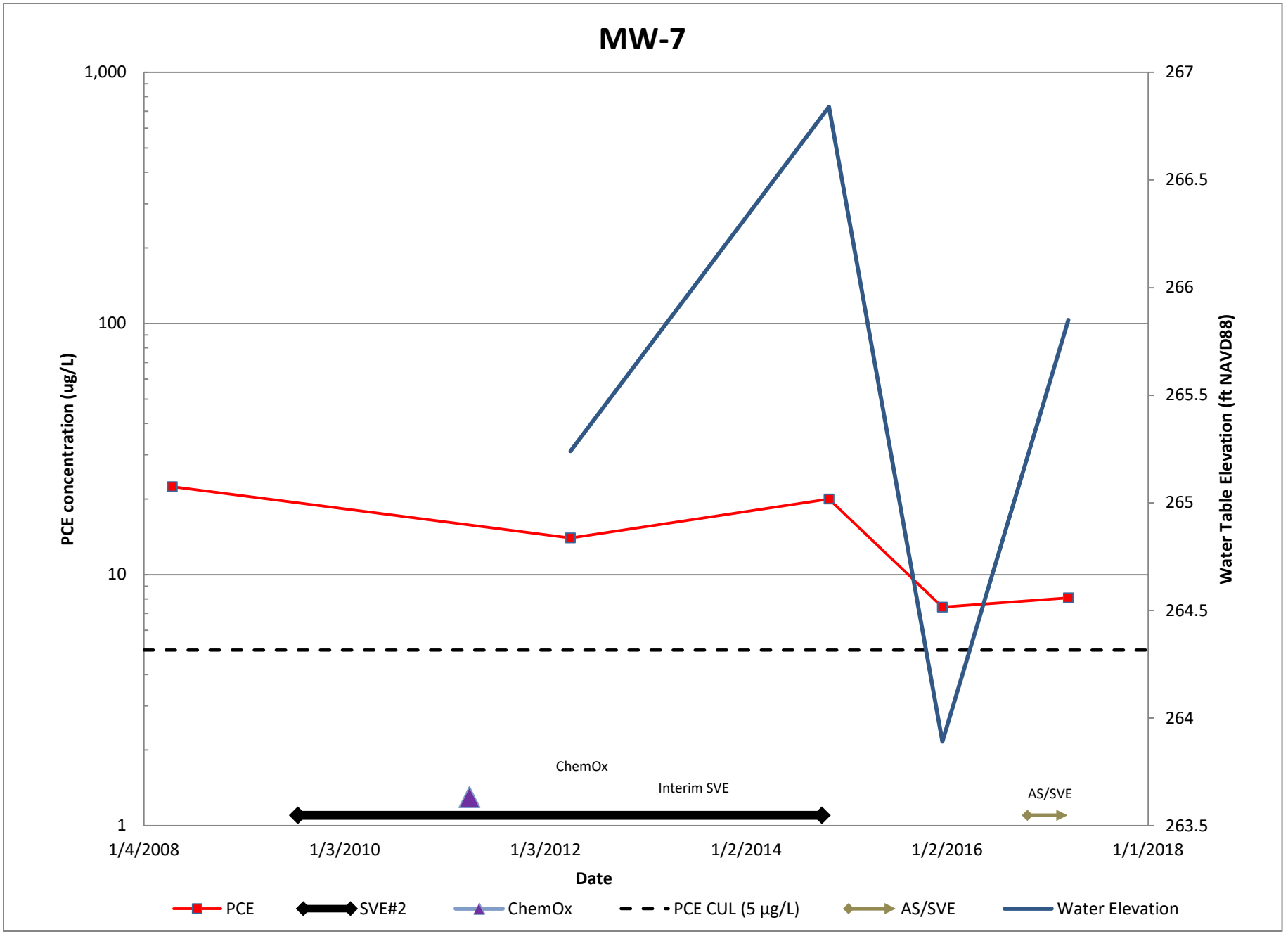
Monitoring Well	Date	PCE (µg/l)		Other VOCs detected (µg/l)
DC-9B	4/8/1999	**1.4**		Chloroform (1.4), Toluene (2.9)
DC-9B	3/6/2001	**2.0**		
DC-9B	6/20/2001	1.0	U	
DC-9B	9/17/2001	1.0	U	
DC-9B	12/20/2001	**6.4**		
DC-9B	7/25/2005	1.0	U	
DC-9B	4/11/2006	1.0	U	
DC-9B	8/8/2006	1.0	U	
DC-9B	10/26/2006	1.0	U	
DC-9B	4/26/2007	0.2	U	
DC-9B	4/15/2008	**0.60**		
* Monitoring well has been decommissioned				
DC-10B	4/8/1999	**1.8**		Chloroform (1.2), Toluene (1.9)
DC-10B	3/6/2001	**3.3**		TCE (1.7)
DC-10B	6/20/2001	**2.4**		
DC-10B	9/17/2001	1.0	U	
DC-10B	12/20/2001	1.0	U	
DC-10B	7/25/2005	1.0	U	
DC-10B	4/11/2006	1.0	U	
DC-10B	4/26/2007	**0.34**		
DC-10B	11/3/2010	**2.6**		
DC-10B	5/30/2011	2.0	U	Acetone (290)
DC-10B	7/19/2011	2.0	U	Acetone (54)
DC-10B	10/18/2011	2.0	U	Acetone (31)
DC-10B	4/6/2012	2.0	U	
DC-16	4/25/2007	**0.42**		
DC-16	11/5/2010	2.0	U	
DC-16	5/31/2011	2.0	U	
DC-16	7/19/2011	2.0	U	
DC-16	10/18/2011	2.0	U	
DC-16	4/6/2012	2.0	U	
KMW-5D	4/25/2007	0.2	U	
KMW-5D	4/3/2012	2.0	U	

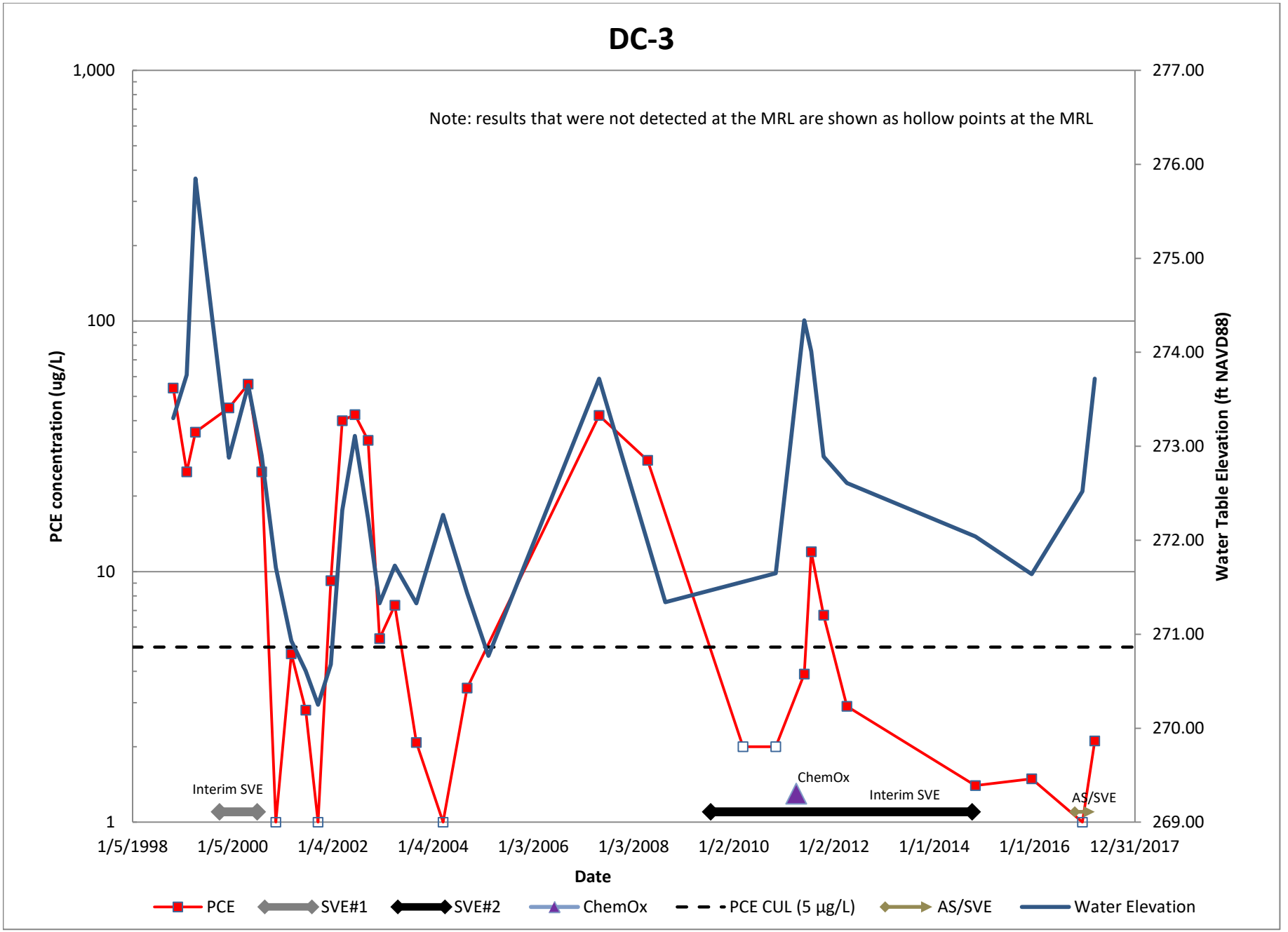
NOTES:

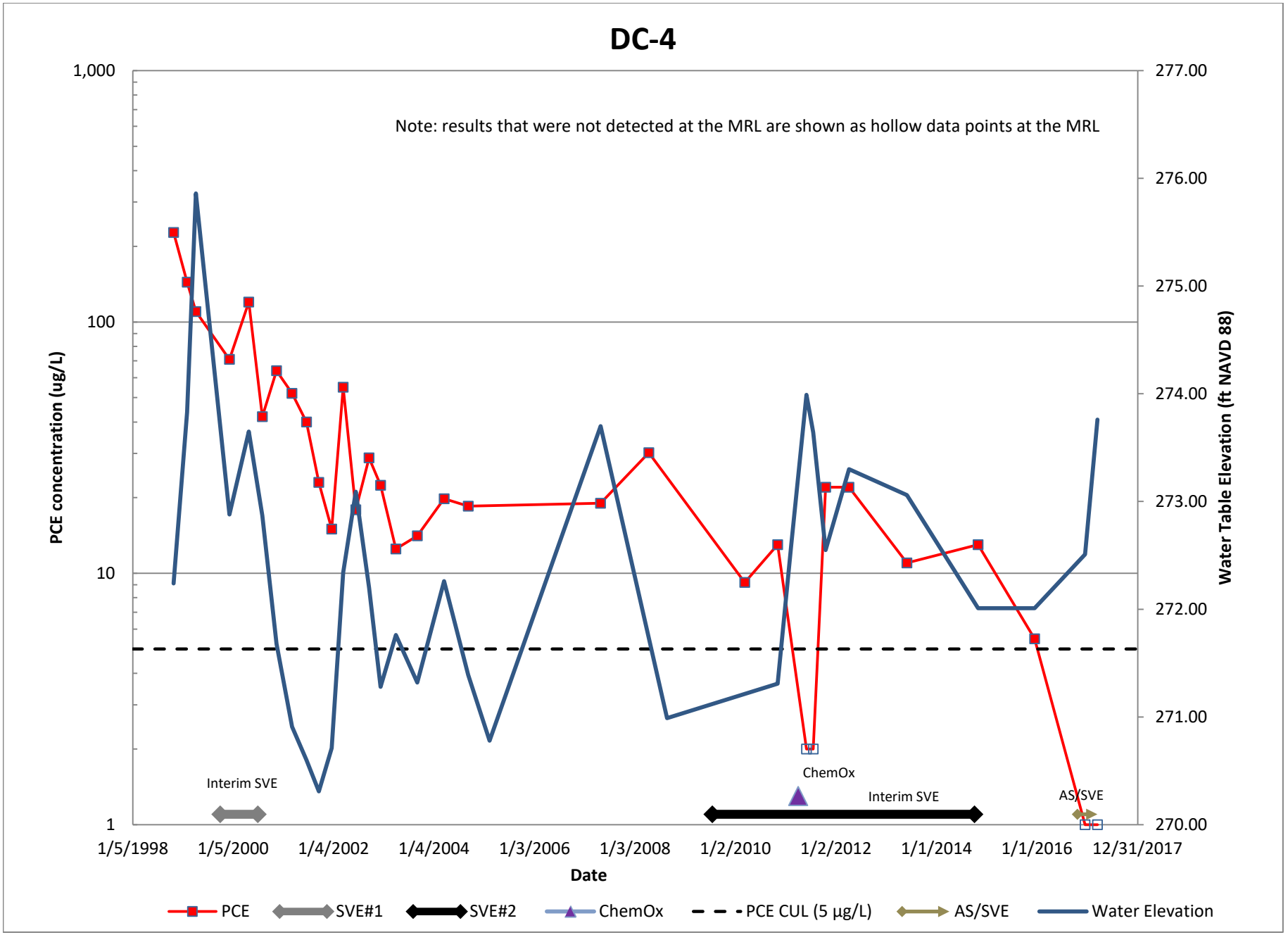
1. Tetrachloroethene (PCE) concentrations in migrograms per liter (µg/l).
2. Groundwater samples analyzed using USEPA Method 8260B.
3. U = concentration not detected at or above the laboratory practical quantitation limit (PQL).
4. Detected concentrations are shown in **bold.**
5. Concentrations exceeding the cleanup level are **bold and shaded**.
6. Other detected VOCs are below their respective cleanup level unless otherwise noted.
7. Shallow monitoring wells are screened at the top of the shallow aquifer, and deep monitoring wells are screened below and deeper within the shallow aquifer.
8. Review of historical results indicate that DC-17 was inadvertently sampled as DC-5 in 2010, 2011 and 2012. This table reports the 2010 - 2012 DC-17 data as DC-5.

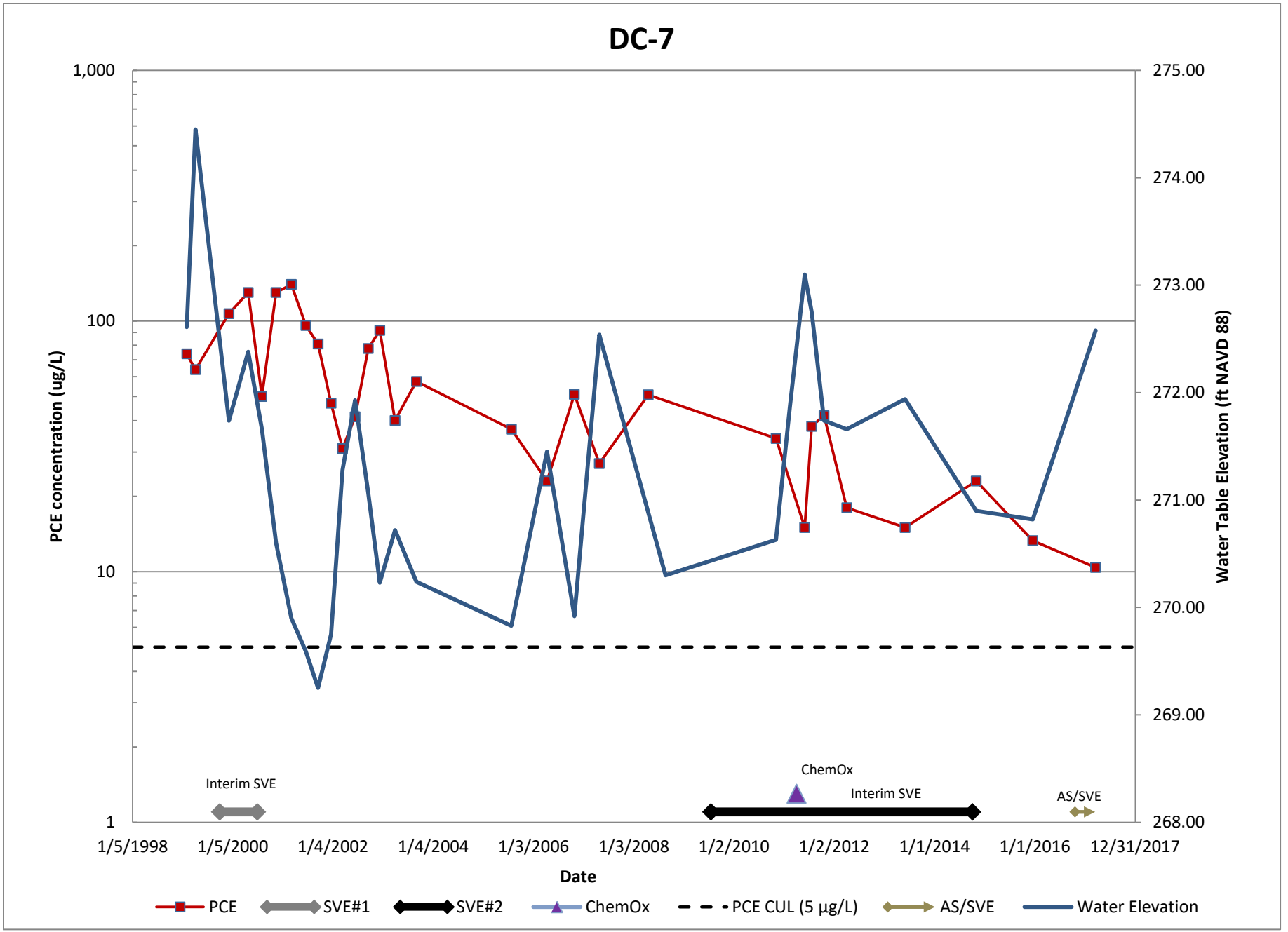
ATTACHMENT E
TIME TREND PLOTS

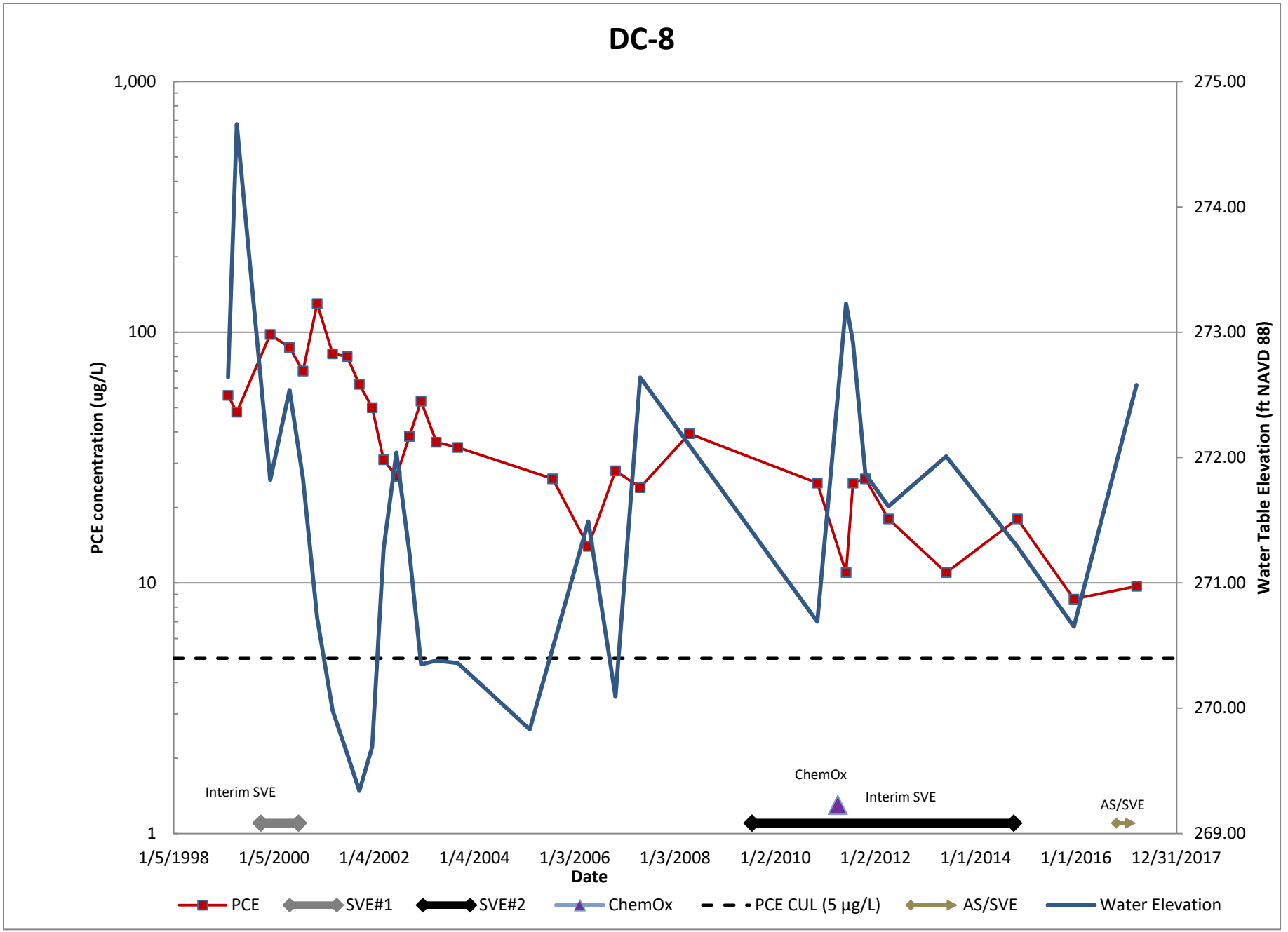

MW-2
Note: results that were not detected at the MRL are shown as hollow points at the MRL
PCE concentration (ug/L)
1,000
100
10
1
Water Table Elevation (ft NAVD88)
274
273.5
273
272.5
272
271.5
271
1/5/1998
1/5/2000
1/4/2002
1/4/2004
1/3/2006
1/3/2008
1/2/2010
1/2/2012
1/1/2014
1/1/2016
12/31/2017
Date
Interim SVE
ChemOx
Interim SVE
AS/SVE
PCE
SVE#1
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation

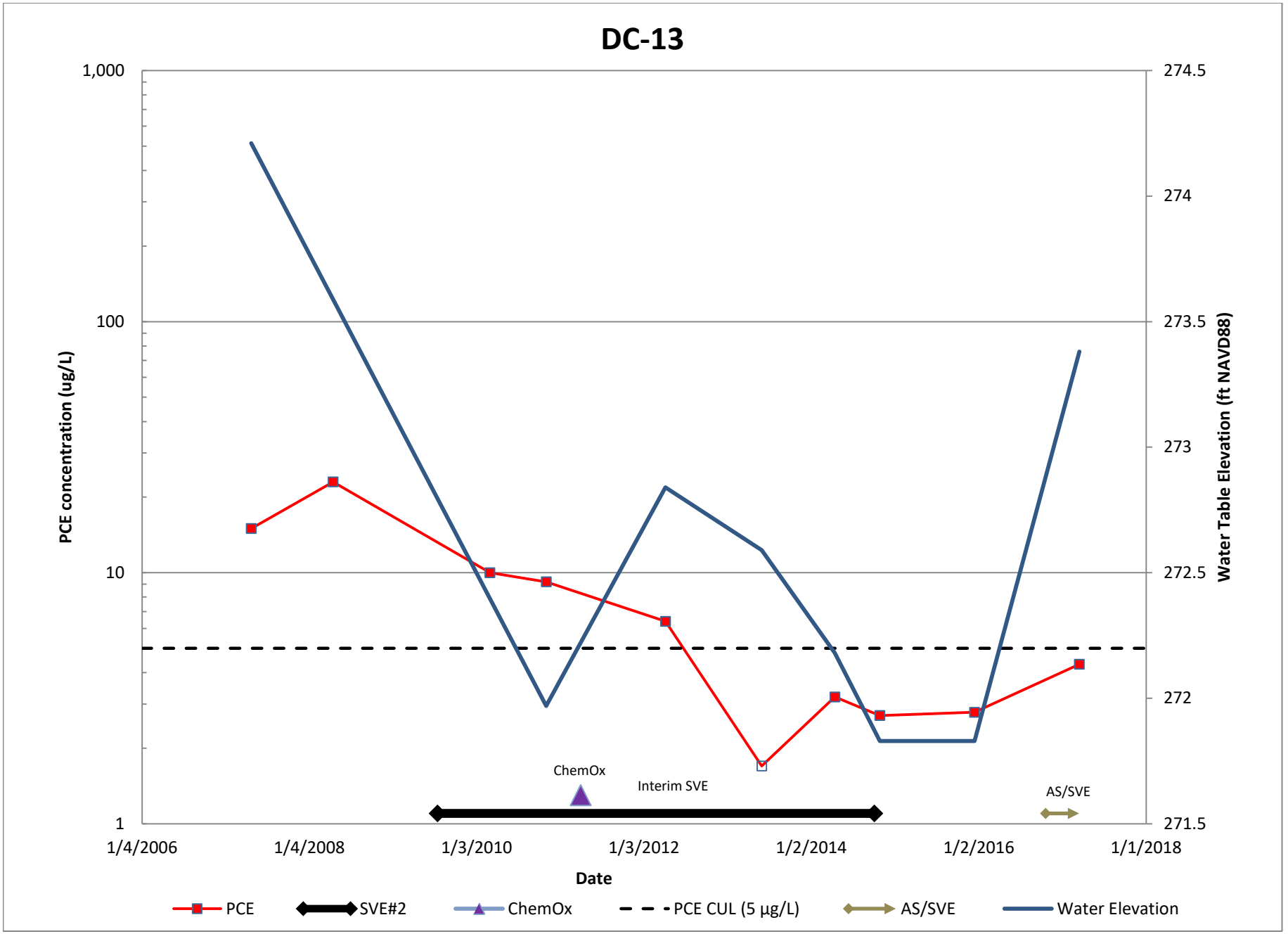

MW-7
1,000
100
10
1
PCE concentration (ug/L)
267
266.5
266
265.5
265
264.5
264
263.5
Water Table Elevation (ft NAVD88)
ChemOx
Interim SVE
AS/SVE
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation

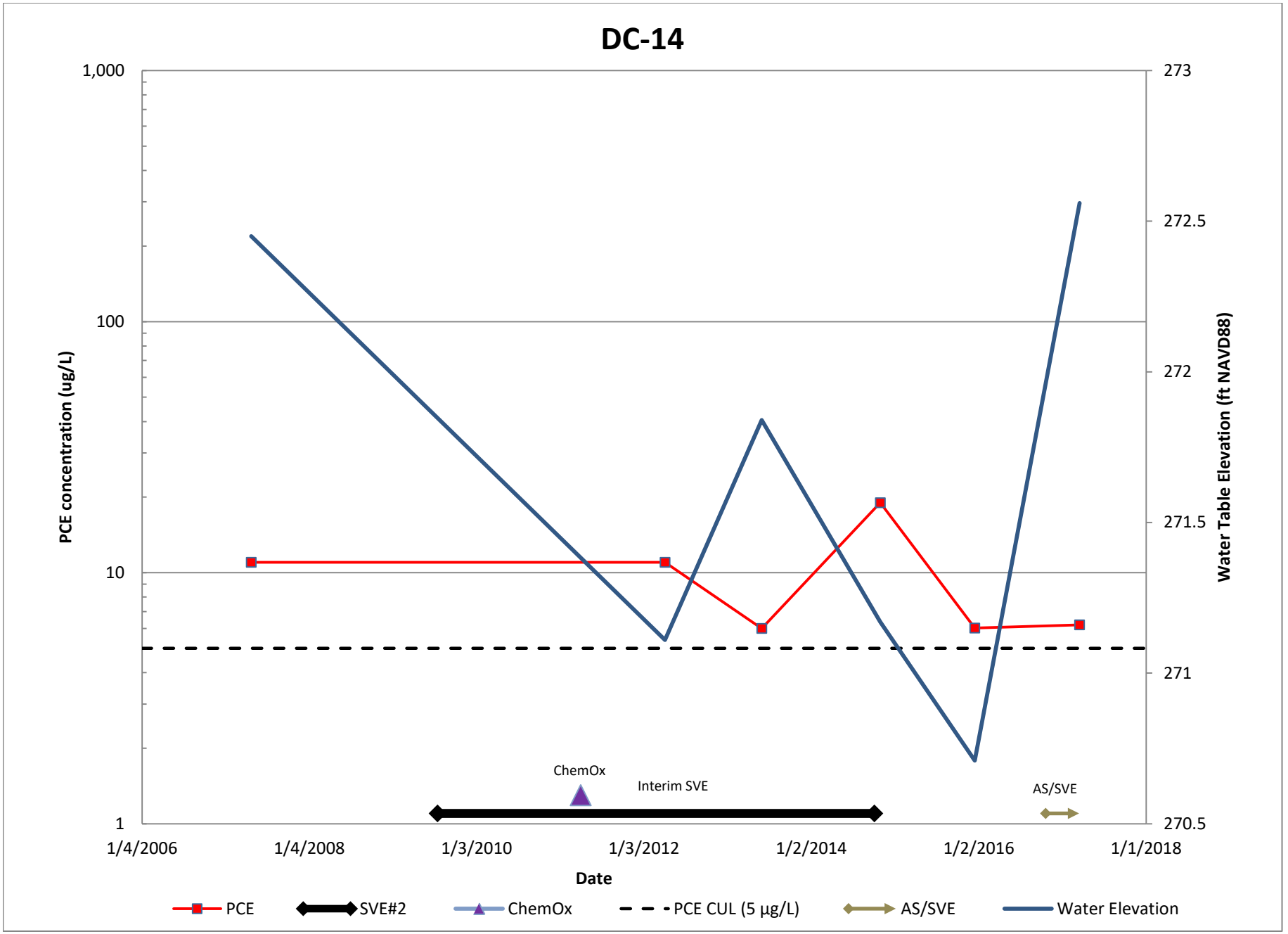

DC-3
Note: results that were not detected at the MRL are shown as hollow points at the MRL
PCE concentration (ug/L)
1,000
100
10
1
Water Table Elevation (ft NAVD88)
277.00
276.00
275.00
274.00
273.00
272.00
271.00
270.00
269.00
1/5/1998
1/5/2000
1/4/2002
1/4/2004
1/3/2006
1/3/2008
1/2/2010
1/2/2012
1/1/2014
1/1/2016
12/31/2017
Date
Interim SVE
ChemOx
Interim SVE
AS/SVE
PCE
SVE#1
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation

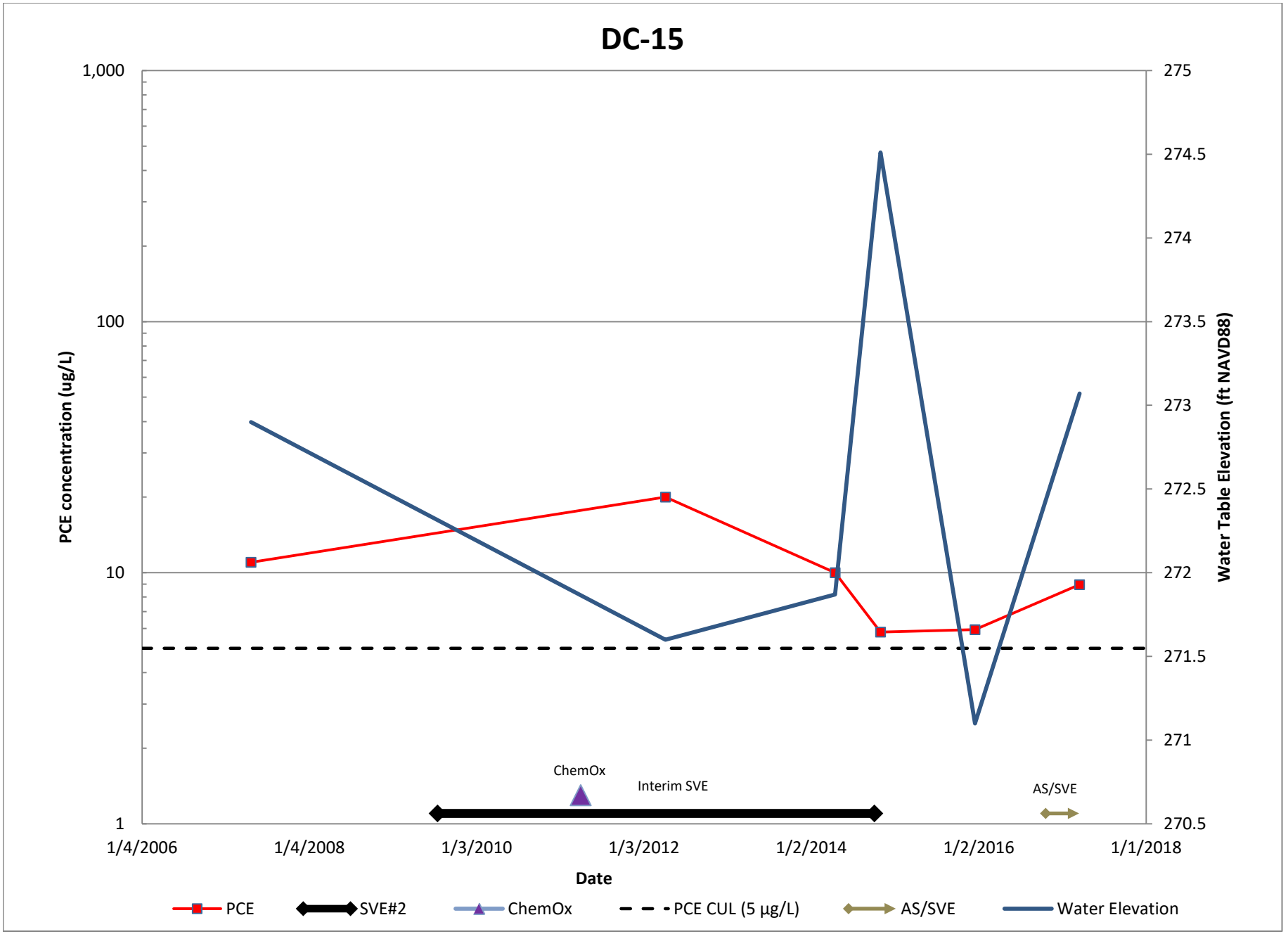

DC-4
Note: results that were not detected at the MRL are shown as hollow data points at the MRL
PCE concentration (ug/L)
1,000
100
10
1
Water Table Elevation (ft NAVD 88)
277.00
276.00
275.00
274.00
273.00
272.00
271.00
270.00
1/5/1998
1/5/2000
1/4/2002
1/4/2004
1/3/2006
1/3/2008
1/2/2010
1/2/2012
1/1/2014
1/1/2016
12/31/2017
Date
Interim SVE
ChemOx
Interim SVE
AS/SVE
PCE
SVE#1
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation

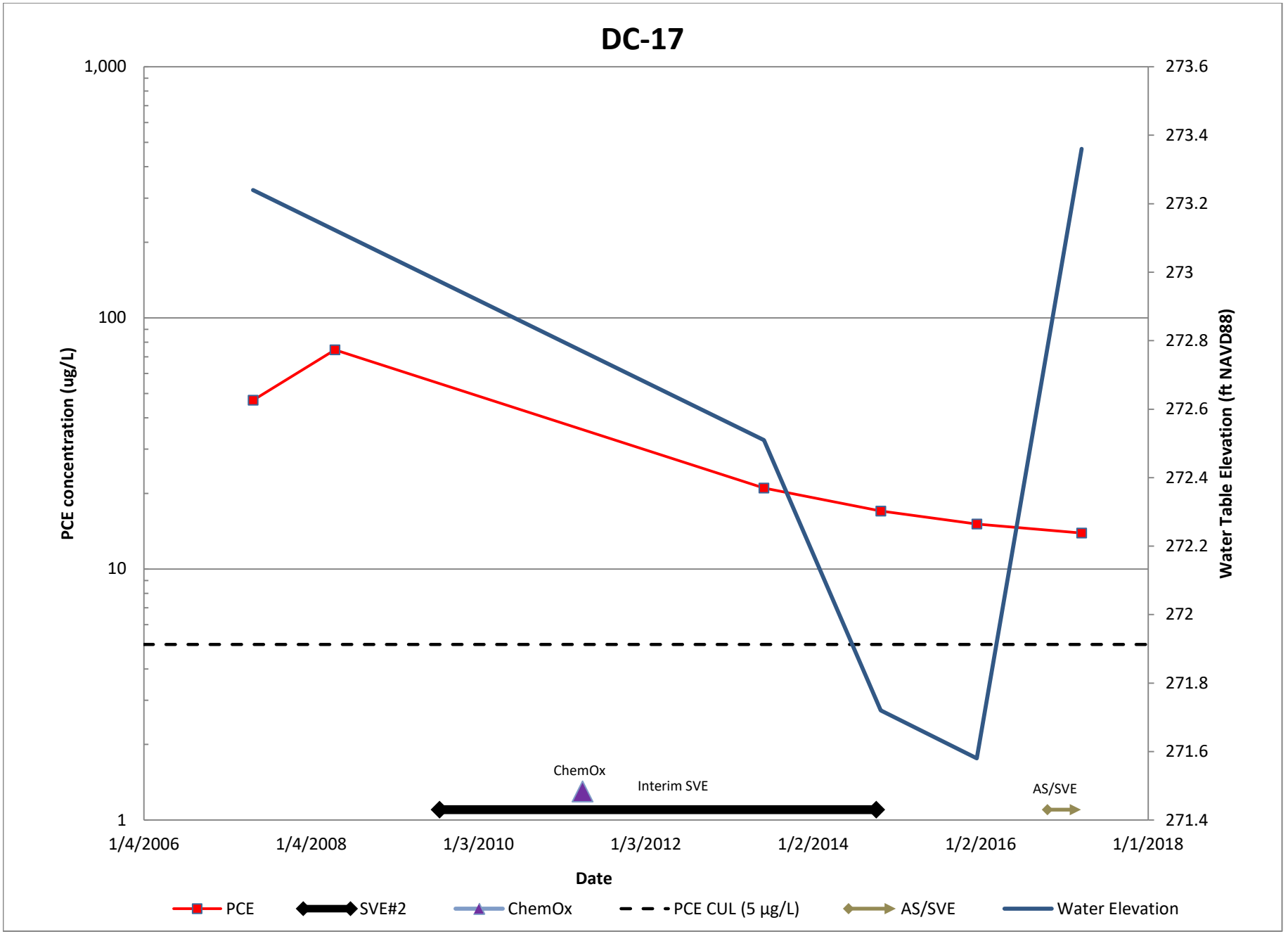

DC-7
1,000
100
10
1
PCE concentration (ug/L)
275.00
274.00
273.00
272.00
271.00
270.00
269.00
268.00
Water Table Elevation (ft NAVD 88)
Interim SVE
ChemOx
Interim SVE
AS/SVE
1/5/1998
1/5/2000
1/4/2002
1/4/2004
1/3/2006
1/3/2008
1/2/2010
1/2/2012
1/1/2014
1/1/2016
12/31/2017
Date
PCE
SVE#1
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation

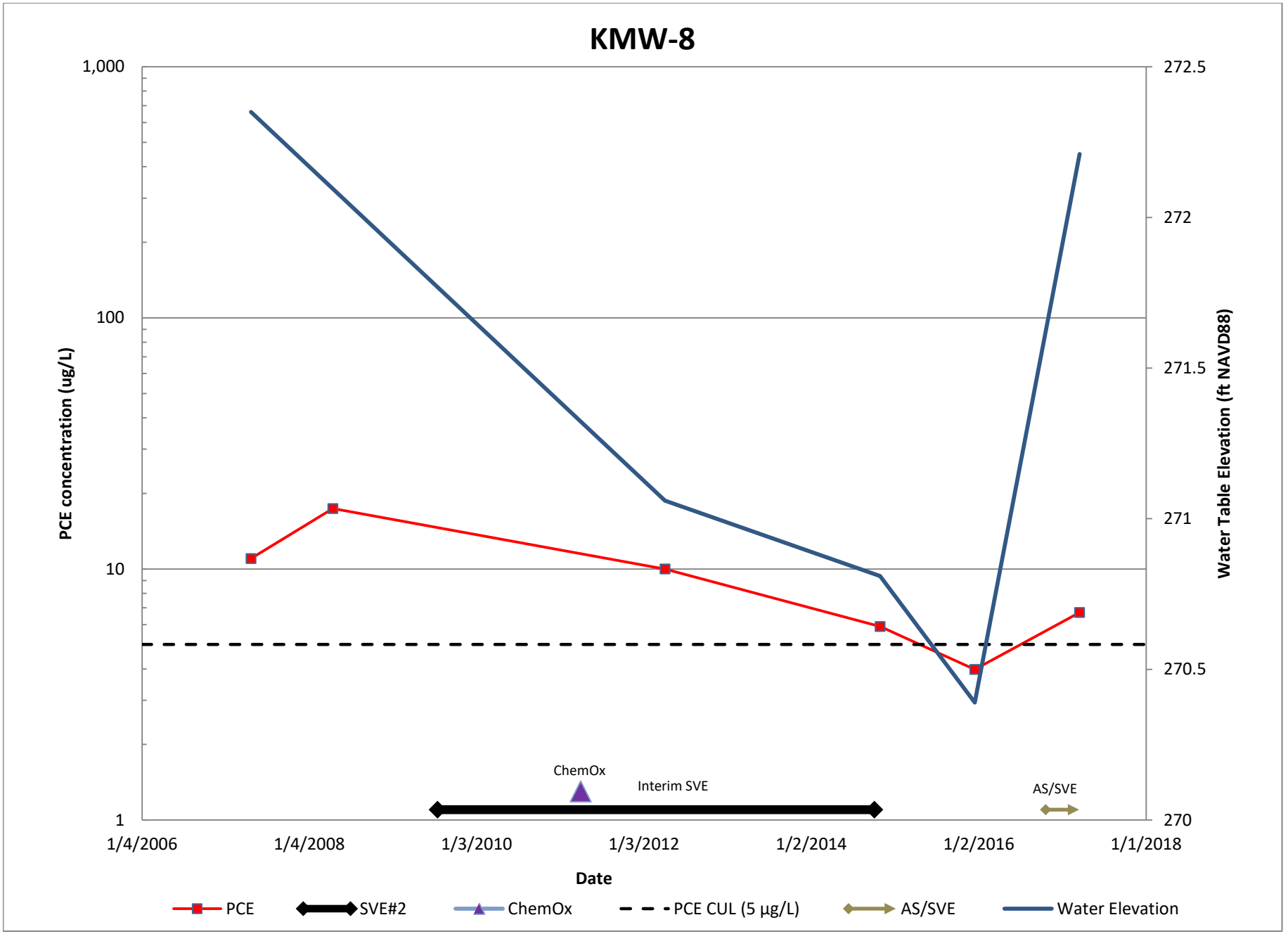

DC-8
1,000
100
10
1
PCE concentration (ug/L)
275.00
274.00
273.00
272.00
271.00
270.00
269.00
Water Table Elevation (ft NAVD 88)
Interim SVE
ChemOx
Interim SVE
AS/SVE
1/5/1998
1/5/2000
1/4/2002
1/4/2004
1/3/2006
1/3/2008
1/2/2010
1/2/2012
1/1/2014
1/1/2016
12/31/2017
Date
PCE
SVE#1
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation


DC-13
1,000
100
10
1
PCE concentration (ug/L)
274.5
274
273.5
273
272.5
272
271.5
Water Table Elevation (ft NAVD88)
1/4/2006
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
ChemOx
Interim SVE
AS/SVE
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation


DC-14
1,000
100
10
1
PCE concentration (ug/L)
273
272.5
272
271.5
271
270.5
Water Table Elevation (ft NAVD88)
1/4/2006
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
ChemOx
Interim SVE
AS/SVE
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation


DC-15
1,000
100
10
1
PCE concentration (ug/L)
275
274.5
274
273.5
273
272.5
272
271.5
271
270.5
Water Table Elevation (ft NAVD88)
ChemOx
Interim SVE
AS/SVE
1/4/2006
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation


DC-17
1,000
100
10
1
PCE concentration (ug/L)
273.6
273.4
273.2
273
272.8
272.6
272.4
272.2
272
271.8
271.6
271.4
Water Table Elevation (ft NAVD88)
ChemOx
Interim SVE
AS/SVE
1/4/2006
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation


KMW-8
1,000
100
10
1
PCE concentration (ug/L)
272.5
272
271.5
271
270.5
270
Water Table Elevation (ft NAVD88)
1/4/2006
1/4/2008
1/3/2010
1/3/2012
1/2/2014
1/2/2016
1/1/2018
Date
ChemOx
Interim SVE
AS/SVE
PCE
SVE#2
ChemOx
PCE CUL (5 µg/L)
AS/SVE
Water Elevation