Appendix G: 2019 Third Supplemental Limited Phase II Environmental Site Assessment (406 Sheets)

Washington State Department of Transportation

SR 520 Bridge Replacement and HOV Program

Third Supplemental Limited Phase II Environmental Site Assessment 2625 East Montlake Place East Seattle, Washington

Prepared for

Washington State Department of Transportation
SR520 Bridge Replacement and HOV Program
999 3rd Ave Suite 2200
Seattle, WA 98104

Written by

Colin Duffy
Senior Scientist

Reviewed by:

Glenn A. Hayman, LHg
Principal Hydrogeologist

Consultant Team

Innovex Environmental Management, Inc.
16310 80th Street NE, Suite 300
Redmond, WA 98052

January 16, 2019

Third Supplemental
Limited Phase II Environmental Site Assessment
2625 East Montlake Place East
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999 3rd Ave Suite 2200
Seattle, WA 98104

Prepared by:

Innovex Environmental Management, Inc.
16310 80th Street NE, Suite 300
Redmond, WA 98052

INNOVEX has performed a Phase II Environmental Site Assessment of 2625 East Montlake Place East Seattle, Washington in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objectives:

This Third Supplemental Phase II Environmental Site Assessment (ESA) was conducted to better define the extent of contamination encountered during the initial Phase II ESA, and to identify additional contaminated areas present at 2625 East Montlake Place East.

Colin Duffy,
Senior Scientist

January 16, 2019
Date

Glenn A. Hayman,
Principal Hydrogeologist

January 16, 2019
Date

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Acronyms and Abbreviations

bgs	below ground surface
CLARC	Cleanup Levels and Risk Calculation
COPC	contaminant of potential concern
CSM	conceptual site model
CUL	Cleanup Level
Ecology	Washington State Department of Ecology
EM	electromagnetic
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
GPR	ground penetrating radar
INNOVEX	INNOVEX Environmental Management, Inc.
LCS	laboratory control sample
LCSD	laboratory control sample duplicate
mg/kg	milligrams per kilogram
MS	matrix spike
MSD	matrix spike duplicate
MTCA	Model Toxics Control Act
OnSite	OnSite Environmental Inc.
PCB	polychlorinated biphenyl
PID	photoionization detector
ppm	parts per million
QA	quality assurance
QC	quality control
RCRA	Resource Conservation and Recovery Act
ROWs	right-of-ways
RPD	relative percent difference
SDCI	Seattle Department of Construction and Inspections
SPU	Seattle Public Utilities
SR	State Route
SAP	Sampling and Analysis Plan
SDOT	Seattle Department of Transportation
SPT	standard penetration test
SVOC	semivolatile organic compound
ug/L	micrograms per liter
UST	underground storage tank
VOC	volatile organic compound
WABN	West Approach Bridge North
WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation

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1.0 INTRODUCTION

1.1 Authorization

INNOVEX Environmental Management, Inc. (INNOVEX) has completed this Third Supplemental Phase II Environmental Site Assessment (ESA) of 2625 East Montlake Place East, Seattle, Washington. This work builds on previous investigations conducted in the public right of way near the property between 2016 and 2018. This fieldwork on the property was possible once access was authorized in December 2018. The project was completed in support of the Washington State Department of Transportation (WSDOT) State Route (SR) 520 Bridge Replacement and HOV Program.

Field activities were conducted in accordance with the Supplemental Sampling and Analysis Plan (SAP) prepared for this project (INNOVEX, 2017). Any deviations from the Supplemental SAP are summarized below in Section 3.9.

1.2 Objective

This Third Supplemental Phase II ESA was conducted to further define the extent of contamination encountered during the initial Phase II ESA (INNOVEX, 2016), and to determine if additional contaminated areas are present on the 2625 East Montlake Place East property. The property has been used as a gas station for approximately 90 years.

The scope of work for this Third Supplemental Phase II ESA included the following work tasks:

- Six soil borings were advanced to between 20 and 25 feet below ground surface (bgs) to collect soil and groundwater samples for chemical analysis.
- Soil samples were collected and analyzed to determine if petroleum and related contamination is present in the soil beneath the site.
- At least one soil sample from each boring was selected and submitted and analyzed for site contaminants of potential concern (COPCs). Three soil samples were selected from borings H-16-18 and H-19-18 and analyzed based on field observations.
- Groundwater samples were collected from each of the six borings and analyzed for the COPCs.

The results of this Third Supplemental Phase II ESA will be used to assist WSDOT in management of potential environmental risks during property acquisition and subsequent reconstruction of the SR520 Eastbound on and off ramps and East Montlake Place East.

2.0 SITE BACKGROUND

The areas investigated for the previous Phase II ESA, and two Supplemental Phase II ESA investigations are the City of Seattle and WSDOT SR520 right-of-ways (ROWs) in the vicinity of 2625 East Montlake Place East, Seattle, Washington. The investigations took place in the northeast quarter of Township 25 North, Range 4 East and Section 21.

Between 2016 and spring 2018, three Phase II ESA investigations included the advancement of 15 soil borings, which were located around the perimeters of the gas station property (Figure 2). Additional details regarding the previous investigations can be found in the References section (6.0). Soil and groundwater sample exceedances are summarized below. Refer to the Phase II ESA (INNOVEX, 2016), Supplemental Phase II ESA (INNOVEX, 2018a), and Second Supplemental Phase II ESA (INNOVEX, 2018b) for a complete discussion of the investigation methods and analytical results.

- Gasoline-range hydrocarbons were detected above Model Toxics Control Act (MTCA) Cleanup Levels (CULs) in three soil samples from boring H-4-16.
- Volatile organic compounds (VOCs) including benzene, ethylbenzene, total xylenes, naphthalene, and methylene chloride were detected above applicable MTCA CULs in soil samples from borings H-2-16, H-3-16, H-4-16, H-5-16, and H-7-17.
- Copper and nickel were detected in soil samples concentrations above applicable MTCA CULs in borings H-2-16 and H-5-16, and nickel was detected at concentrations above the applicable MTCA CUL in borings H-1-16, H-3-16, and H-4-16. Barium was detected at a concentration above the applicable MTCA CUL in boring H-14-18.
- VOCs including benzene and chloroform were detected in the groundwater sample from boring H-3-16 in concentrations greater than the applicable MTCA CULs.
- Dissolved antimony and arsenic were detected in the groundwater sample from boring H-3-16 in concentrations greater than applicable MTCA CULs.
- Total arsenic, barium, and lead were detected in the groundwater samples from borings H-11-18, H-14-18, and H-15-18 in concentrations greater than applicable MTCA CULs.

3.0 PHASE II ESA ACTIVITIES

3.1 Scope of Assessment

A project SAP was developed (INNOVEX, 2017) to better define the extent of contamination encountered during the initial Phase II ESA (INNOVEX, 2016), and to identify additional contaminated areas present on the 2625 East Montlake Place East property. A total of six soil borings were drilled to between 20 and 25 feet bgs. Borings were terminated at a depth of 5 feet below groundwater. Ten subsurface soil samples and six groundwater samples were collected and submitted to OnSite Environmental Inc. (OnSite) in Redmond, Washington for chemical analysis. The rationale and results for this Third Supplemental Phase II ESA are summarized below.

3.2 Conceptual Site Model

In order to provide a framework for evaluating data gaps and subsequent analytical data, a conceptual site model (CSM) illustrating potential sources of chemicals, release mechanisms, means of retention in or migration to exposure media, exposure routes, and receptors was developed for the property during the initial Phase II ESA (INNOVEX, 2016). The CSM is largely unchanged from the initial Phase II ESA and describes, in a generalized way, the interactions of potential contaminants, mechanisms of contaminant migration, and possible routes of human and ecological exposure under site conditions.

Based on background information presented in the previous Phase II ESA investigations, the COPCs identified for the site are:

- Gasoline-range hydrocarbons
- Diesel-range petroleum hydrocarbons
- Oil-range petroleum hydrocarbons
- Polychlorinated biphenyls (PCBs)
- VOCs
- SVOCs
- Resource Conservation and Recovery Act (RCRA) 8 Metals

3.3 Utility Locations

INNOVEX coordinated the utility locates using a private locating service, Underground Detection, and through One Call Concepts, ticket # 18508208. Boring locations were adjusted in the field to avoid buried utilities. Buried utilities identified on the property included possible product lines, electric lines, gas lines, and drain lines. For safety purposes and in order to protect potentially unidentified subsurface utilities, Holocene Drilling advanced through the first five feet of each boring using an air knife and a vacuum truck.

3.4 GPR Survey

A ground penetrating radar (GPR) survey was conducted by Underground Detection at each boring location. In addition, an electromagnetic (EM) survey was conducted in the parking area on the western portion of the property with the intent of evaluating anomalies with the GPR. No anomalies were detected. The results of the EM survey are shown as Appendix C.

3.5 Permits and Noise Control

WSDOT obtained a temporary noise variance from the Seattle Department of Construction and Inspections (SDCI) to allow the drilling to be conducted at night to reduce the impacts to traffic and local businesses.

3.6 Drilling Activities

Fieldwork was conducted from December 3-7, 2018. Six soil borings were advanced by Holocene Drilling using a sonic drill rig to characterize the extent of petroleum contamination identified in the initial Phase II ESA report. Each boring was drilled with clean, decontaminated equipment.

Drilling equipment was decontaminated at the WSDOT West Approach Bridge North (WABN) Laydown Yard on Lake Washington Boulevard at the start of drilling and after each night's work.

3.7 Soil and Groundwater Sampling

A total of 29 soil samples were collected from the soil borings at approximate five-foot intervals using an 18-inch standard penetration test (SPT) split spoon sampler advanced in front of the sonic drill head. An aliquot of soil recovered from each drilling interval was placed in a Ziploc bag and allowed to volatilize for approximately 15 minutes. The aliquot was collected from the SPT sampler. The headspace within the Ziploc bag was evaluated for organic vapors using a photo-ionization detector (PID). The soil sample from the depth with the highest PID reading was selected for chemical analysis. In the two borings with elevated PID readings (H-16-18 and H-19-18), samples from the top and bottom of the interval with elevated PID readings were also analyzed.

Groundwater was encountered in each of the borings between 15 and 20 feet bgs. A PVC screen was temporarily installed in each boring to allow for groundwater sample collection. Samples were collected immediately upon drilling completion to finish the work within the court ordered property access time frame. Samples for dissolved metals analysis were filtered by the laboratory. Groundwater samples were collected from each boring using either a decontaminated submersible pump, a peristaltic pump using disposable tubing, or disposal bailers. The submersible pump was decontaminated between borings using Alconox soap and a deionized water rinse. Decontamination and rinse water was handled as described in Section 3.11.

Soil samples were collected from each boring as summarized below:

- Boring H-16-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 478 parts per millions (ppm) at 15 feet. This soil sample was selected for chemical analysis.

The interval with elevated PID readings extended from 10 feet (36.8 ppm) to the bottom of the boring at 25 feet (38.5 ppm). These two samples were also selected from chemical analysis.

- Boring H-17-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 16.4 ppm at 10 feet. This soil sample was selected for chemical analysis.
- Boring H-18-18 was advanced to 25 feet bgs. No elevated PID readings (>0.0 ppm) were observed for soil samples collected from this boring. Groundwater was observed at a depth of approximately 20 to 25 feet at this location. The soil sample collected at 25 feet represented the approximate soil/groundwater interface and was selected for chemical analysis.
- Boring H-19-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 1,608 ppm at 15 feet. This soil sample was selected for chemical analysis. The interval with elevated PID readings extended from 5 feet (887 ppm) to the bottom of the boring at 25 feet (264 ppm). These two samples were also selected from chemical analysis.
- Boring H-20-18 was advanced to 25 feet bgs. The highest PID reading recorded in this boring was 12 ppm at 10 feet. This soil sample was selected for chemical analysis.
- Boring H-21-18 was advanced to 20 feet bgs. No elevated PID readings (>0.0 ppm) were observed in soil samples collected from this boring. Groundwater was observed at a depth of approximately 15 to 20 feet at this location. The soil sample collected at 20 feet represented the approximate soil/groundwater interface and was selected for chemical analysis. One field duplicate was collected from this location.

The boring logs are included as Appendix A.

3.8 Analytical Methods

The COPCs identified for the site include petroleum hydrocarbon related constituents. Soil and groundwater samples were analyzed to determine the concentrations of these COPCs using the following methods:

- Gasoline-range hydrocarbons –Washington State Method NWTPH-Gx
- Diesel-range petroleum hydrocarbons – Washington State Method NWTPH-Dx
- Oil-range petroleum hydrocarbons – Washington State Method NWTPH-Dx
- PCBs – U.S Environmental Protection Agency (EPA) Method 8082
- VOCs – EPA Method 8260
- SVOCs – EPA Method 8270
- RCRA Metals – EPA Method 6010 / 7470

Naphthalene is analyzed in soil and groundwater using both EPA Methods 8260 and 8270 and thus yield differing results. Results for both analyses are presented in this report but only the higher of the two results are used for evaluation.

Limited groundwater volume was available for sample collection in boring H-20-18 and the sample was not analyzed for PCBs. One field duplicate was collected from boring H-21-18 and was analyzed for gasoline range hydrocarbons and VOCs only.

3.9 Site Cleanup Levels

The CULs for the project were identified using the MTCA regulation (Washington Administrative Code [WAC] 173-340). MTCA cleanup levels are tabulated in Ecology's Cleanup Levels and Risk Calculation (CLARC) table available at:
https://fortress.wa.gov/ecy/clarc/FocusSheets/CLARC%20Master%20Spreadsheet.xlsx.

The complete discussion of the project CULs can be found in the Phase II ESA report (INNOVEX, 2016).

Soil CULs protective of groundwater were selected because of the 10 to12-foot depth to groundwater reported in the three WSDOT piezometers discussed in the Site Geology and Hydrogeology section in the initial Phase II ESA (INNOVEX, 2016).

Groundwater CULs for the site were also identified using MTCA WAC 173-340. MTCA Method A CULs were applied and MTCA Method B CULs were applied when Method A CULs were not available. MTCA regulates groundwater quality based on total analyte concentrations. Dissolved metals concentrations are not used for establishing compliance with MTCA CULs.

3.10 Soil Analytical Results

Analytical results for soil samples are summarized in Tables 1-5 and those analytes which exceed the applicable MTCA CUL are shown on Figure 3. The analytical reports are included in Appendix B.

Gasoline range hydrocarbons were detected at concentrations exceeding the applicable MTCA CUL of 30 milligrams per kilogram (mg/kg) in four of the ten soil samples (Table 1). Exceedances were identified in borings H-16-18, H-17-18, and H-19-18 at concentrations between 130 mg/kg to 5,600 mg/kg. Oil range hydrocarbons were detected in concentrations exceeding the applicable MTCA CUL of 2,000 mg/kg in one sample (H-19-18-5) with a concentration of 6,000 mg/kg (Table 1).

Several VOCs were detected in soil samples at concentrations exceeding the applicable MTCA CULs (Table 2) as summarized below.

- Benzene concentrations exceeded the applicable MTCA CUL of 0.00174 mg/kg in eight of the ten soil samples. Exceedances were identified in borings H-16-18, H-17-18, H-19-18, and H-20-18, and ranged from 0.0050 mg/kg to 1.4 mg/kg.
- Toluene concentrations exceeded the applicable MTCA CUL of 0.273 mg/kg in one of the ten soil samples. The exceedance was identified in boring H-19-18 at a concentration of 7.3 mg/kg.
- Ethylbenzene concentrations exceeded the applicable MTCA CUL of 0.343 mg/kg in five of the ten soil samples. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 0.91 mg/kg to 17 mg/kg.

- Total xylenes concentrations exceeded the applicable MTCA CUL of 0.831 mg/kg in four of the ten soil samples. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 2.34 mg/kg to 80 mg/kg.
- Naphthalene concentrations exceeded the applicable MTCA CUL of 0.236 mg/kg in five of the ten soil samples. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 0.32 mg/kg to 11 mg/kg.

SVOCs were detected in seven of the ten soil samples (Table 3). Only naphthalene was detected at concentrations exceeding the applicable MTCA CUL of 0.236 mg/kg. Exceedances were identified in borings H-16-18 and H-19-18, and ranged from 0.41 mg/kg to 6.7 mg/kg.

PCBs were not detected in any of the soil samples analyzed (Table 4).

Barium and chromium were detected in each of the soil samples analyzed (Table 5). Lead was detected in four of the ten samples analyzed. Only barium was detected in concentrations exceeding the applicable MTCA CUL of 82.6 mg/kg. Exceedances were found in samples from borings H-16-18, H-17-18, H-19-18, and H-20-18 and ranged from 92 mg/kg to 200 mg/kg.

3.11 Groundwater Analytical Results

Analytical results for groundwater samples are summarized in Tables 6-10. Analyte concentrations that exceeded the applicable MTCA CUL are shown on Figure 4. The analytical reports are included in Appendix B.

Gasoline range hydrocarbons were detected in the groundwater samples at concentrations exceeding the applicable MTCA CUL of 800 micrograms per liter (ug/L) from five of the six borings (Table 6). Exceedances were identified in borings H-16-18, H-17-18, H-18-18, H-19-18, and H-21-18, and ranged from 1,300 ug/L to 110,000 ug/L.

Diesel range hydrocarbons were detected at concentrations exceeding the applicable MTCA CUL of 500 ug/L in the groundwater sample from boring H-20-18 at a concentration of 690 ug/L (Table 6).

VOCs were detected in the groundwater samples from each of the six borings (Table 7). Several VOCs were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Benzene concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from each of the six borings, and ranged from 28 ug/L to 5,300 ug/L.
- The 1,2-dichloroethane concentration exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater sample from boring H-20-18 at a concentration of 19 ug/L.
- The toluene concentration exceeded the applicable MTCA CUL of 1,000 ug/L in the groundwater sample from boring H-19-18 at a concentration of 2,000 ug/L.
- Ethylbenzene concentrations exceeded the applicable MTCA CUL of 700 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 4,600 ug/L and 2,200 ug/L, respectively.

- Total xylene concentrations exceeded the applicable MTCA CUL of 1,000 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 1,710 ug/L to 18,600 ug/L.
- The N-propylbenzene concentration exceeded the applicable MTCA CUL of 800 ug/L in the groundwater sample from boring H-19-18 at a concentration of 830 ug/L.
- 1,3,5-trimethylbenzene concentrations exceeded the applicable MTCA CUL of 80 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-19-18, and ranged from 100 ug/L to 2,100 ug/L.
- The N-butylbenzene concentration exceeded the applicable MTCA CUL of 400 ug/L in the groundwater sample from boring H-19-18 at a concentration of 520 ug/L.
- The naphthalene concentration exceeded the applicable MTCA CUL of 160 ug/L in the groundwater sample from boring H-16-18 at a concentration of 970 ug/L.

SVOCs were detected in the groundwater samples in each of the six borings (Table 8). Several SVOCs were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Naphthalene concentrations exceeded the applicable MTCA CUL of 160 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 570 ug/L and 280 ug/L, respectively.
- 2-methylnaphthalene concentrations exceeded the applicable MTCA CUL of 32 ug/L in the groundwater samples from borings H-16-18 and H-19-18. The exceeding concentrations were 150 ug/L and 48 ug/L, respectively.
- 1-methylnaphthalene concentrations exceeded the applicable MTCA CUL of 1.51 ug/L in the groundwater samples from each of the six borings, and ranged from 1.8 ug/L to 72 ug/L.

Total metals were detected in the groundwater samples from each of the six borings (Table 10). Several metals were detected at concentrations exceeding the applicable MTCA CULs as summarized below.

- Total arsenic concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from each of the six borings, and ranged from 52 ug/L to 580 ug/L.
- Total barium concentrations exceeded the applicable MTCA CUL of 3,200 ug/L in the groundwater samples from four of the six borings. Exceedances were identified in borings H-17-18, H-18-18, H-19-18, and H-20-18 and ranged from 3,600 ug/L to 11,000 ug/L.
- Total cadmium concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from four of the six borings. Exceedances were identified in borings H-17-18, H-18-18, H-19-18, and H-20-18 and ranged from 5.9 ug/L to 12 ug/L.
- Total chromium concentrations exceeded the applicable MTCA CUL of 48 ug/L in the groundwater samples from each of the six borings, and ranged from 420 ug/L to 4,800 ug/L.
- Total lead concentrations exceeded the applicable MTCA CUL of 15 ug/L in the groundwater samples from each of the six borings, and ranged from 34 ug/L to 800 ug/L.

- The total mercury concentration exceeded the applicable MTCA CUL of 2.0 ug/L in the groundwater sample from boring H-17-18 at a concentration of 2.2 ug/L.
- PCBs were not detected in the groundwater samples in any of the borings (Table 9). Note that H-20-18 was not analyzed for PCBs as mentioned in Section 3.7.

Dissolved arsenic and dissolved barium were detected in the groundwater samples in four of the six borings and dissolved lead was detected in the groundwater samples from two of the six borings. Only dissolved arsenic was detected in concentrations exceeding the applicable MTCA CUL. Dissolved arsenic concentrations exceeded the applicable MTCA CUL of 5.0 ug/L in the groundwater samples from three of the six borings. Exceedances were identified in borings H-16-18, H-17-18, and H-20-18, and ranged from 12 ug/L to 32 ug/L.

Groundwater in the temporary PVC screens was not allowed to stabilize due to time constraints, and the samples collected for dissolved metals analysis were filtered by the laboratory. The dissolved metals results may be more representative of groundwater conditions at the Site.

3.12 Data Quality

Data reports from OnSite were reviewed by INNOVEX. Laboratory provided data quality parameters were reviewed. Data qualifiers were applied as necessary. Data for gasoline-range hydrocarbons, diesel and lube-oil range hydrocarbons, VOCs, SVOC's, PCBs, and RCRA metals were determined by INNOVEX to be qualified and acceptable for all purposes following evaluation of the quality control specifications presented in the SAP; or equivalent requirements found in the contracted commercial laboratory analytical methods. Precision, accuracy, representativeness, comparability, and completeness parameters were evaluated for each method. In addition to laboratory control samples, the data were also reviewed for trip temperature and holding time requirements.

OnSite followed the most recent versions of the specified analytical methods. Precision was acceptable as demonstrated by the reported matrix spike/matrix spike duplicate (MS/MSD) laboratory control sample/laboratory control sample duplicate (LCS/LCSD) relative percent difference (RPD) values. Accuracy was also acceptable, as demonstrated by the reported surrogate, MS/MSD, and LCS/LCD percent recovery values. Samples were collected and field activities were conducted in accordance with the SAP.

One field duplicate sample was collected for both soil and groundwater. Field duplicate samples assess variability due to sampling technique and instrument performance as well as variability possibly caused by the heterogeneity of the matrix being sampled.

3.13 Disposal of Investigation Derived Waste

Investigation derived waste, including soil cuttings and decontamination water, were containerized by the drilling crew and taken to the WSDOT WABN Laydown Yard on Lake Washington Boulevard, Seattle for temporary storage pending sample analytical results. Laboratory reports were provided to WSDOT to coordinate disposal.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the 2016 Phase II ESA (INNOVEX, 2016), the 2017 Supplemental Phase II ESA (INNOVEX, 2018a), the 2018 Second Supplemental Phase II ESA (INNOVEX, 2018b) and the findings presented above, we offer the following conclusions and recommendations for the investigation area. Twenty one soil borings were advanced and one or more soil samples from each boring was analyzed for gasoline, diesel, and lube oil-range hydrocarbons, VOCs, SVOCs, PCBs, and RCRA or priority pollutant metals. Groundwater samples were collected from ten of the borings. The MTCA CUL exceedances for the soil samples are presented on Figure 3. The MTCA CUL exceedances for the groundwater samples are shown on Figure 4.

The findings of the 2018 Third Supplemental Phase II ESA are summarized as follows:

- The EM survey conducted at the Site did not identify any unknown underground storage tanks (USTs) or any other anomalies in the parking area on the western portion of the property (Appendix C).
- Soil and groundwater sampling results identified that petroleum compound contamination (primary gasoline and related constituents) is present at the Site.
- Contaminants in soil samples were detected above applicable MTCA CULs in four of the six borings. Depths of contaminated soil ranged from 5 to 25 feet bgs.
- Contaminants in groundwater samples were detected above applicable MTCA CULs in all six of the borings. Groundwater was encountered at depths between 15 and 20 feet bgs.
- Total and dissolved metals were detected in the groundwater samples above applicable MTCA CULs which may be caused by the reducing conditions created by the petroleum compound contamination. Of the dissolved metals that were detected, only arsenic was detected above the applicable MTCA CUL.

This investigation confirmed that the source of the contamination is on the 2625 East Montlake Place East property where petroleum and related contaminant concentrations were the highest. Contaminant concentrations in soil are highest in the area of the UST vault and the eastern pump island (Figure 3). Soil contaminant concentrations declined with an increasing distance from this area. Spatially, soil contaminant concentrations above applicable MTCA CULs appear to be limited to the area north of the Northwest Automotive building, extending north, east, and west to areas beneath East Montlake Place East and the SR520 eastbound on ramp. Contamination in soil is likely to extend deeper than the deepest samples collected in borings H-16-18, H-17-18, H-19-18, and H-20-18 because contamination was present in the deepest soil sample from these borings.

Based upon the concentrations of VOCs in soil and groundwater and the proximity of existing buildings on the property, it is recommended that an assessment of the potential for vapor intrusion be conducted. Ecology guidance for vapor intrusion studies can be found at:
https://fortress.wa.gov/ecy/publications/documents/0909047.pdf

It is also recommended that monitoring wells be installed and sufficiently developed and purged so unfiltered groundwater samples can be collected and analyzed to further evaluate total metals concentrations.

In addition, contaminated soil located on the 2625 East Montlake Place East property be remediated using excavation and disposal when the USTs and ancillary facilities are removed. The resulting excavation could be treated with an appropriate bioremediation product to enhance the breakdown of remaining contaminants in soil and groundwater. Subsequent groundwater monitoring is also recommended until contaminant concentrations are below MTCA CULs.

5.0 LIMITATIONS

This report is based on the site conditions, data, and other information available as of the date of the report, and the conclusions herein are applicable only to the time frame in which the report was prepared. Background information used to prepare this report including, but not limited to site plans and other data have been furnished to INNOVEX by WSDOT and as available on Ecology's website. INNOVEX has relied on this information as furnished and is neither responsible for nor has confirmed the accuracy of this information.

6.0 REFERENCES

INNOVEX, 2016. Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. December 8, 2016.

INNOVEX, 2017. Supplemental Sampling and Analysis Plan for SR520 Bridge Replacement and HOV Program – Stelter Montlake LLC Phase II Environmental Site Assessment, Seattle, Washington. October 16, 2017.

INNOVEX, 2018a. Supplemental Phase II Environmental Site Assessment, State SR520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. January 26, 2018.

INNOVEX, 2018b. Second Supplemental Phase II Environmental Site Assessment, SR520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. June 15, 2018.

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FIGURES

DESIGNED BY
Innovex Environmental
Colin Duffy
DRAWN BY
ICD
December 13, 2018

INNOVEX
ENVIRONMENTAL MANAGEMENT, INC.

16310 NE 80th St., Suite 300
Redmond, WA 98052
(800) 988-7880

0 1000 2000
SCALE IN FEET

N W E S

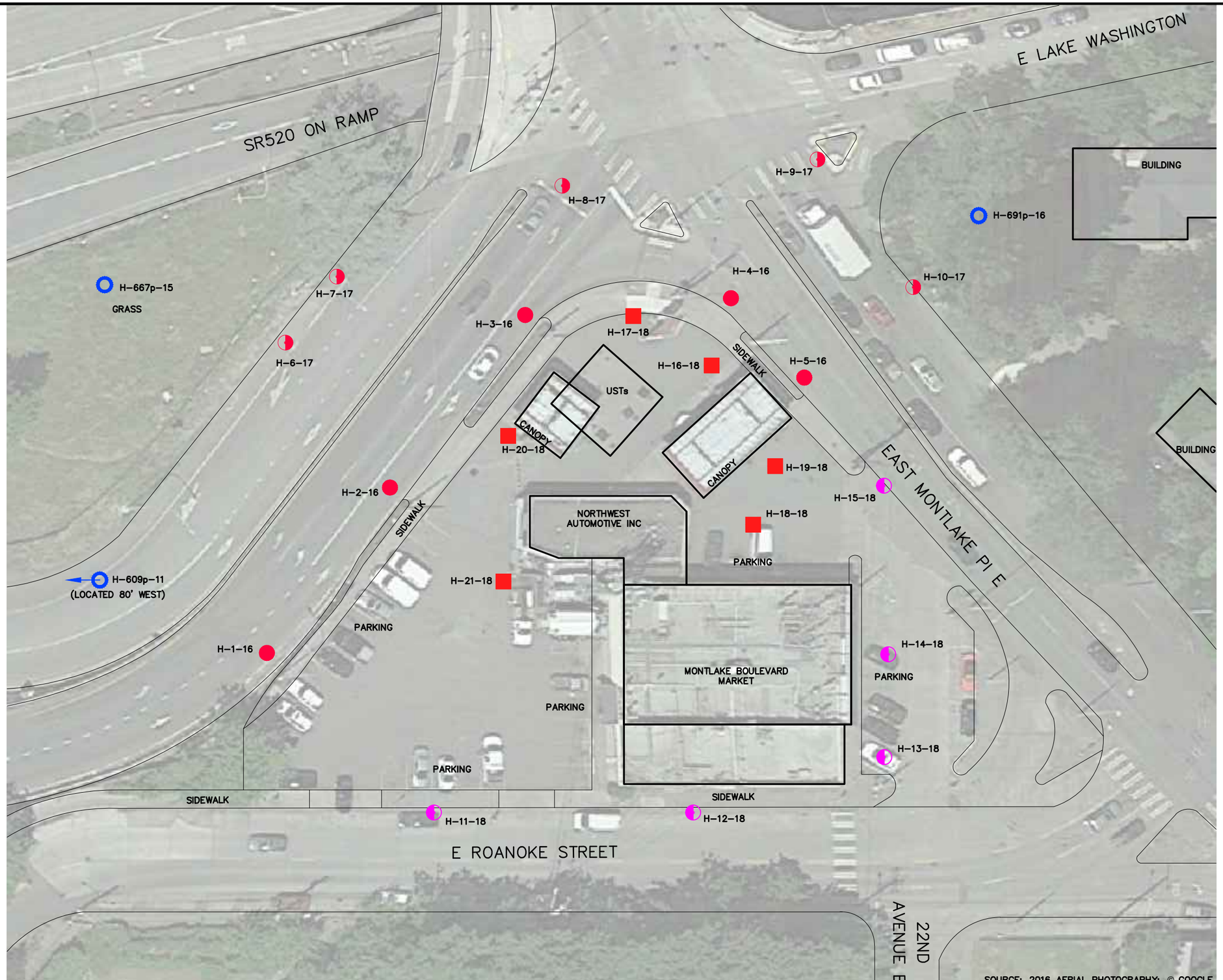
LATITUDE 47D 38M 38S NORTH
LONGITUDE 122D 18M 15S WEST

US GEOLOGICAL SURVEY - 2014
7.5 MINUTE QUADRANGLE MAP
SEATTLE NORTH, WASHINGTON

FIGURE 1
Site Location Map

2625 East Montlake Place East
SEATTLE, WASHINGTON

SR520_SITELOCATION.DWG



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SCALE IN FEET

LEGEND

H-1-16	SOIL BORING LOCATION (2016 ESA)
H-10-17	SOIL BORING LOCATION (2017 ESA)
H-11-18	SOIL BORING LOCATION (2018 ESA#1)
H-667p-15	GEOTECHNICAL EXPLORATIONS
H-16-18	SOIL BORING LOCATION (2018 ESA#2)

DESIGNED BY
Innovex Environmental
Colin Duffy
DRAWN BY
ICD
December 17, 2018

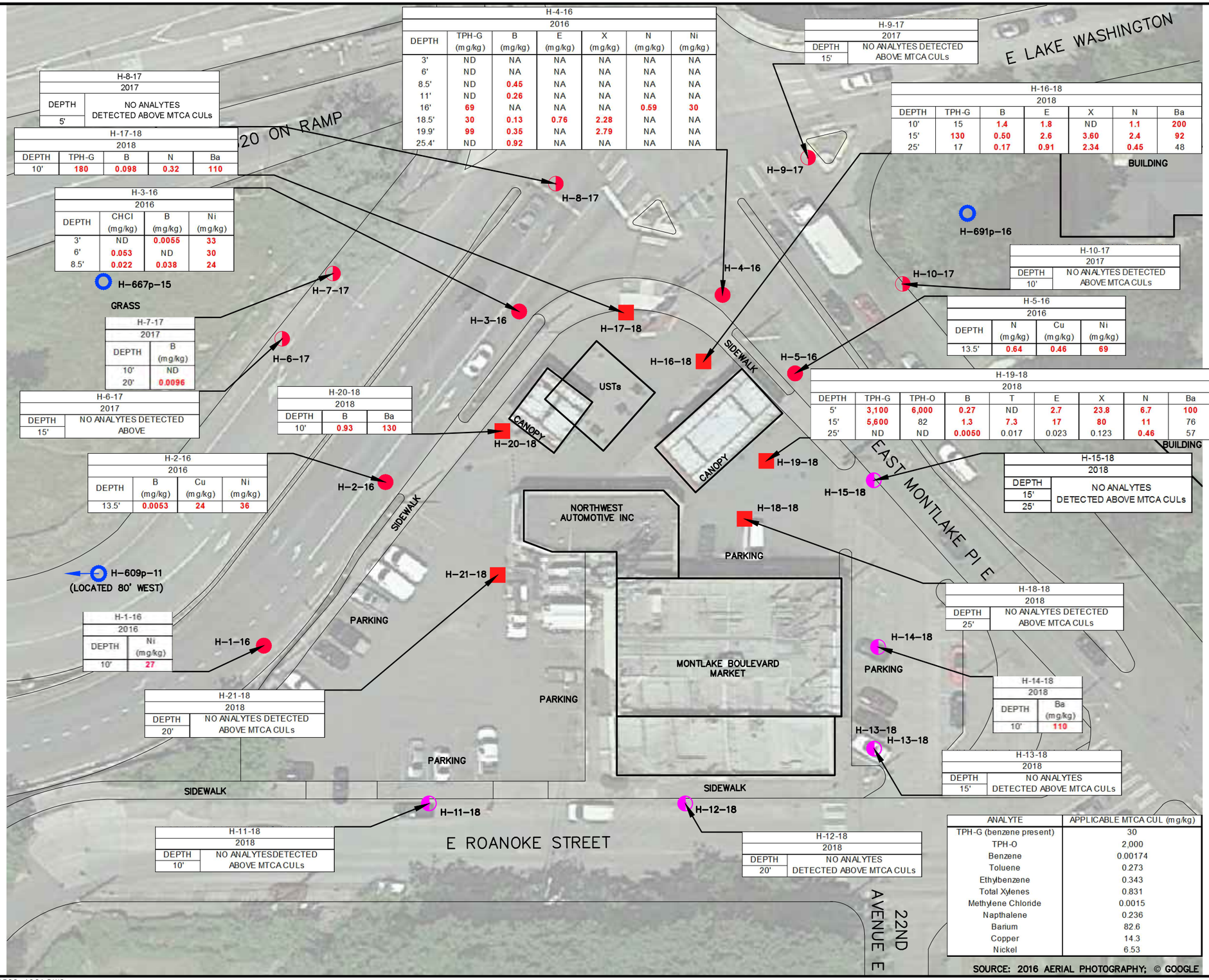
FIGURE 2

2016-2018 Boring Location Map

2625 East Montlake Place East SEATTLE, WASHINGTON

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.
16310 NE 80th St., Suite 300
Redmond, WA 98052
(800) 988-7880

SR520_18Q4_1.DWG



H-4-16						
2016						
DEPTH	TPH-G (mg/kg)	B (mg/kg)	E (mg/kg)	X (mg/kg)	N (mg/kg)	Ni (mg/kg)
3'	ND	NA	NA	NA	NA	NA
6'	ND	NA	NA	NA	NA	NA
8.5'	ND	**0.45**	NA	NA	NA	NA
11'	ND	**0.26**	NA	NA	NA	NA
16'	**69**	NA	NA	NA	**0.59**	**30**
18.5'	**30**	**0.13**	**0.76**	**2.28**	NA	NA
19.9'	**99**	**0.35**	NA	**2.79**	NA	NA
25.4'	ND	**0.92**	NA	NA	NA	NA

H-9-17	
2017	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
15'	

H-16-18						
2018						
DEPTH	TPH-G	B	E	X	N	Ba
10'	15	**1.4**	**1.8**	ND	**1.1**	**200**
15'	**130**	**0.50**	**2.6**	**3.60**	**2.4**	**92**
25'	17	**0.17**	**0.91**	**2.34**	**0.45**	48

H-8-17	
2017	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
5'	

H-17-18				
2018				
DEPTH	TPH-G	B	N	Ba
10'	**180**	**0.098**	**0.32**	**110**

H-3-16			
2016			
DEPTH	CHCl (mg/kg)	B (mg/kg)	Ni (mg/kg)
3'	ND	**0.0055**	**33**
6'	**0.053**	ND	**30**
8.5'	**0.022**	**0.038**	**24**

H-10-17	
2017	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
10'	

H-5-16			
2016			
DEPTH	N (mg/kg)	Cu (mg/kg)	Ni (mg/kg)
13.5'	**0.64**	**0.46**	**69**

H-7-17	
2017	
DEPTH	B (mg/kg)
10'	ND
20'	**0.0096**

H-6-17	
2017	
DEPTH	NO ANALYTES DETECTED ABOVE
15'	

H-20-18		
2018		
DEPTH	B	Ba
10'	**0.93**	**130**

H-19-18									
2018									
DEPTH	TPH-G	TPH-O	B	T	E	X	N	Ba
5'	**3,100**	**6,000**	**0.27**	ND	**2.7**	**23.8**	**6.7**	**100**
15'	**5,600**	82	**1.3**	**7.3**	**17**	**80**	**11**	76
25'	ND	ND	**0.0050**	0.017	0.023	0.123	**0.46**	57

H-2-16			
2016			
DEPTH	B (mg/kg)	Cu (mg/kg)	Ni (mg/kg)
13.5'	**0.0053**	**24**	**36**

H-15-18	
2018	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
15'	
25'	

H-18-18	
2018	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
25'	

H-1-16	
2016	
DEPTH	Ni (mg/kg)
10'	**27**

H-14-18	
2018	
DEPTH	Ba (mg/kg)
10'	**110**

H-21-18	
2018	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
20'	

H-13-18	
2018	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
15'	

H-11-18	
2018	
DEPTH	NO ANALYTESDETECTED ABOVE MTCA CULs
10'	

H-12-18	
2018	
DEPTH	NO ANALYTES DETECTED ABOVE MTCA CULs
20'	

ANALYTE	APPLICABLE MTCA CUL (mg/kg)
TPH-G (benzene present)	30
TPH-O	2,000
Benzene	0.00174
Toluene	0.273
Ethylbenzene	0.343
Total Xylenes	0.831
Methylene Chloride	0.0015
Napthalene	0.236
Barium	82.6
Copper	14.3
Nickel	6.53

SOURCE: 2016 AERIAL PHOTOGRAPHY; © GOOGLE

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SCALE IN FEET

LEGEND

H-1-16	SOIL BORING LOCATION (2016 ESA)
H-10-17	SOIL BORING LOCATION (2017 ESA)
H-11-18	SOIL BORING LOCATION (2018 ESA#1)
H-667p-15	GEOTECHNICAL EXPLORATIONS
H-16-18	SOIL BORING LOCATION (2018 ESA#2)
TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (mg/kg)
TPH-O	TOTAL PETROLEUM HYDROCARBONS AS OIL (mg/kg)
CHCl	METHYLENE CHLORIDE (mg/kg)
B	BENZENE (mg/kg)
E	ETHYLBENZENE (mg/kg)
X	TOTAL XYLENES (mg/kg)
N	NAPHTHALENE (mg/kg)
Cu	COPPER (mg/kg)
Ni	NICKEL (mg/kg)
Ba	BARIUM (mg/kg)
T	TOLUENE (mg/kg)
mg/kg	MILLIGRAMS PER KILOGRAM
DEPTH	SAMPLING DEPTH (FEET)
ND	NOT DETECTED
NA	NOT ANALYZED
CULs	CLEANUP LEVELS

RED BOLD VALUE INDICATES THE DETECTED CONCENTRATION EXCEEDS THE APPLICABLE ECOLOGY MTCA CUL

DESIGNED BY
Innovex Environmental
Colin Duffy

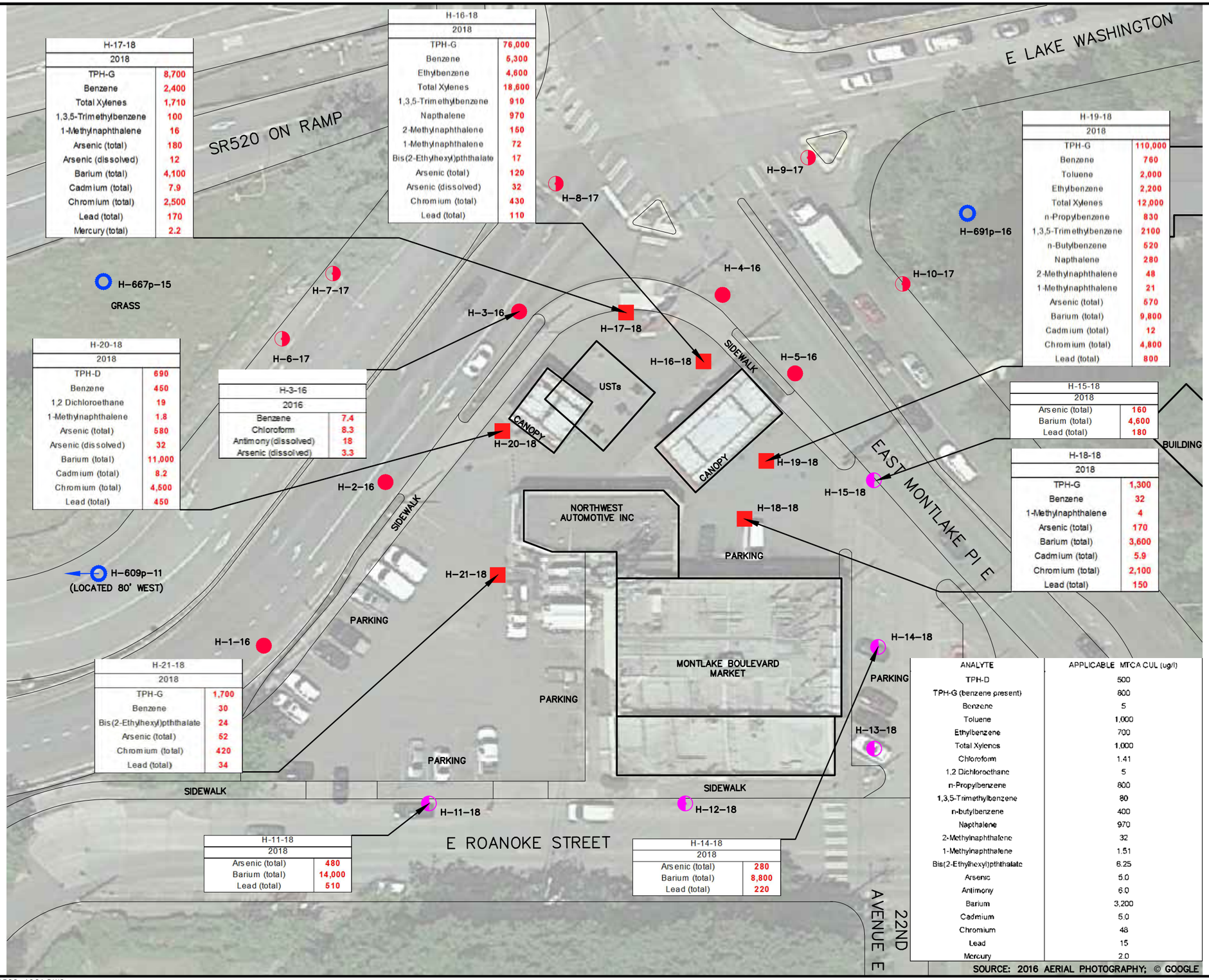
DRAWN BY
ICD
December 19, 2018

FIGURE 3
2016-2018 Soil Sample Analytical Results Exceeding MTCA Clean Up Levels

2625 East Montlake Place East SEATTLE, WASHINGTON

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.
16310 NE 80th St., Suite 300
Redmond, WA 98052
(800) 988-7880

SR520_19Q1.DWG



H-17-18	
2018	
TPH-G	8,700
Benzene	2,400
Total Xylenes	1,710
1,3,5-Trimethylbenzene	100
1-Methylnaphthalene	16
Arsenic (total)	180
Arsenic (dissolved)	12
Barium (total)	4,100
Cadmium (total)	7.9
Chromium (total)	2,500
Lead (total)	170
Mercury (total)	2.2

H-16-18	
2018	
TPH-G	76,000
Benzene	5,300
Ethylbenzene	4,600
Total Xylenes	18,600
1,3,5-Trimethylbenzene	910
Napthalene	970
2-Methylnaphthalene	150
1-Methylnaphthalene	72
Bis(2-Ethylhexyl)pththalate	17
Arsenic (total)	120
Arsenic (dissolved)	32
Chromium (total)	430
Lead (total)	110

H-19-18	
2018	
TPH-G	110,000
Benzene	760
Toluene	2,000
Ethylbenzene	2,200
Total Xylenes	12,000
n-Propylbenzene	830
1,3,5-Trimethylbenzene	2100
n-Butylbenzene	520
Napthalene	280
2-Methylnaphthalene	48
1-Methylnaphthalene	21
Arsenic (total)	570
Barium (total)	9,800
Cadmium (total)	12
Chromium (total)	4,800
Lead (total)	800

H-20-18	
2018	
TPH-D	690
Benzene	450
1,2 Dichloroethane	19
1-Methylnaphthalene	1.8
Arsenic (total)	580
Arsenic (dissolved)	32
Barium (total)	11,000
Cadmium (total)	8.2
Chromium (total)	4,500
Lead (total)	450

H-3-16	
2016	
Benzene	7.4
Chloroform	8.3
Antimony (dissolved)	18
Arsenic (dissolved)	3.3

H-15-18	
2018	
Arsenic (total)	160
Barium (total)	4,600
Lead (total)	180

H-18-18	
2018	
TPH-G	1,300
Benzene	32
1-Methylnaphthalene	4
Arsenic (total)	170
Barium (total)	3,600
Cadmium (total)	5.9
Chromium (total)	2,100
Lead (total)	150

H-21-18	
2018	
TPH-G	1,700
Benzene	30
Bis(2-Ethylhexyl)pththalate	24
Arsenic (total)	52
Chromium (total)	420
Lead (total)	34

H-11-18	
2018	
Arsenic (total)	480
Barium (total)	14,000
Lead (total)	510

H-14-18	
2018	
Arsenic (total)	280
Barium (total)	8,800
Lead (total)	220

ANALYTE	APPLICABLE MTCA CUL (ug/l)
TPH-D	500
TPH-G (benzene present)	800
Benzene	5
Toluene	1,000
Ethylbenzene	700
Total Xylenes	1,000
Chloroform	1.41
1,2 Dichloroethane	5
n-Propylbenzene	800
1,3,5-Trimethylbenzene	80
n-butylbenzene	400
Napthalene	970
2-Methylnaphthalene	32
1-Methylnaphthalene	1.51
Bis(2-Ethylhexyl)pththalate	6.25
Arsenic	5.0
Antimony	6.0
Barium	3,200
Cadmium	5.0
Chromium	48
Lead	15
Mercury	2.0

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SCALE IN FEET

LEGEND

H-1-16		SOIL BORING LOCATION (2016 ESA)
H-10-17		SOIL BORING LOCATION (2017 ESA)
H-11-18		SOIL BORING LOCATION (2018 ESA#1)
H-667p-15		GEOTECHNICAL EXPLORATIONS
H-16-18		SOIL BORING LOCATION (2018 ESA#2)
	TPH-G	TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (µg/L)
	TPH-D	TOTAL PETROLEUM HYDROCARBONS AS DIESEL (µg/L)
	CULs	CLEANUP LEVELS

ALL CONCENTRATIONS EXPRESSED IN MICROGRAMS PER LITER (µg/L)

RED BOLD VALUE INDICATES THE DETECTED CONCENTRATION EXCEEDS THE APPLICABLE ECOLOGY MTCA CUL

DESIGNED BY
Innovex Environmental
Colin Duffy
DRAWN BY
ICD
January 15, 2019

FIGURE 4
2016-2018 Groundwater Sample Analytical Results Exceeding MTCA Clean Up Levels

2625 East Montlake Place East
SEATTLE, WASHINGTON

INNOVEX
ENVIRONMENTAL MANAGEMENT, INC.
16310 NE 80th St., Suite 300
Redmond, WA 98052
(800) 988-7880

SR520_19Q1.DWG

TABLES

Table 1. Petroleum Hydrocarbon Soil Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Gasoline Range Hydrocarbons (mg/kg)	Diesel Range Hydrocarbons (mg/kg)	Oil Range Hydrocarbons (mg/kg)
H-16-18-10	12/3/2018	10	15	ND	ND
H-16-18-15	12/3/2018	15	**130**	ND	ND
H-16-18-25	12/4/2018	25	17	ND	ND
H-17-18-10	12/4/2018	10	**180**	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	59
H-19-18-5	12/5/2018	5	**3,100**	ND	**6,000**
H-19-18-15	12/6/2018	15	**5,600**	ND	82
H-19-18-25	12/6/2018	25	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND
MTCA Cleanup Level			30	2,000	2,000

ND	Not detected
99	Exceeds cleanup level
*	Field duplicate of H-21-18-20

Table 2: **Volatile Organic Compounds Detected in Soil Samples[1]**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Acetone (mg/kg)	Carbon Disulfide (mg/kg)	Methylene Chloride (mg/kg)	2-Butanone (mg/kg)	Benzene (mg/kg)	Toluene (mg/kg)	Ethyl-benzene (mg/kg)	Total-xylenes (mg/kg)	Isopropyl-benzene (mg/kg)	n-Propyl-benzene (mg/kg)	4-Chloro-toluene (mg/kg)	tert-Butyl-benzene (mg/kg)	1,3,5-Trimethyl-benzene (mg/kg)	1,2,4-Trimethyl-benzene (mg/kg)	sec-Butyl-benzene (mg/kg)	p-Isopropyl-toluene (mg/kg)	n-Butyl-benzene (mg/kg)	Napthalene (mg/kg)
H-16-18-10	12/3/2018	10	ND	ND	ND	ND	**1.4**	ND	**1.8**	ND	0.17	0.55	ND	ND	ND	ND	0.071	ND	0.18	0.099
H-16-18-15	12/3/2018	15	ND	ND	ND	ND	**0.50**	ND	**2.6**	**3.60**	0.31	1.3	ND	ND	1.2	4.7	0.18	0.14	0.75	**1.8**
H-16-18-25	12/4/2018	25	ND	ND	ND	ND	**0.17**	ND	**0.91**	**2.34**	0.13	0.48	ND	ND	0.62	2.0	0.072	ND	0.28	**0.45**
H-17-18-10	12/4/2018	10	ND	ND	ND	ND	**0.098**	ND	0.33	ND	0.44	1.8	0.052	ND	0.11	ND	0.57	0.45	2.0	**0.32**
H-18-18-25	12/5/2018	25	0.024	0.0020	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	ND	ND	ND	**0.27**	ND	**2.7**	**23.8**	0.74	1.5	ND	ND	6.1	21	0.51	1.2	2.7	**4.4**
H-19-18-15	12/6/2018	15	ND	ND	ND	ND	**1.3**	**7.3**	**17**	**80**	3.1	8.6	ND	0.060	19	61	1.3	2.3	7.4	**11**
H-19-18-25	12/6/2018	25	0.054	0.0020	ND	0.013	**0.0050**	0.017	0.023	0.123	0.0059	0.012	ND	ND	0.031	0.082	0.0030	0.0038	0.0074	0.0063
H-20-18-10	12/6/2018	10	0.080	ND	ND	0.023	**0.93**	0.028	0.034	0.0261	0.012	0.0029	ND	ND	0.0035	0.0035	ND	0.0059	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level			2.07	0.266	0.00148	48,000	0.00174	0.273	0.343	0.831	8,000	8,000	No CUL	8,000	800	No CUL	8,000	No CUL	4,000	0.236

ND	Not detected
99	Exceeds cleanup level
*	Field duplicate of H-21-18-20
1	Listed analytes are those that have historically been detected at the Site

Table 3. **Semivolatile Organic Compounds Detected in Soil Samples[1]**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Napthalene (mg/kg)	2-Methyl-naphthalene (mg/kg)	1-Methy-lnaphthalene (mg/kg)	Diethyl-phthalate (mg/kg)	Acenaphthene (mg/kg)	Fluorene (mg/kg)	Phenanthrene (mg/kg)	Anthracene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Benzo[a] anthracene (mg/kg)	Chrysene (mg/kg)	Benzo[b] fluoranthene (mg/kg)	Benzo[a] pyrene (mg/kg)	Benzo[j,k] fluoranthene (mg/kg)	Indeno[1,2,3-cd]pyrene (mg/kg)	Dibenz[a,h] anthracene (mg/kg)	Benzo[g,h,i] perylene (mg/kg)
H-16-18-10	12/3/2018	10	**1.1**	1.0	0.51	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-16-18-15	12/3/2018	15	**2.4**	2.7	1.4	ND	0.014	0.025	0.099	0.023	0.042	0.041	ND	ND	ND	ND	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	**0.41**	0.40	0.18	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	0.023	0.070	0.018	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	**6.7**	1.2	0.58	ND	ND	ND	0.29	ND	ND	0.22	ND	0.29	ND	ND	ND	ND	ND	ND
H-19-18-15	12/6/2018	15	**3.7**	1.3	0.60	ND	ND	ND	0.017	ND	0.012	0.014	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-25	12/6/2018	25	**0.46**	0.16	0.067	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level			0.236	320	34.5	4.72	4.98	5.12	No CUL	114	31.6	32.8	0.0429	4.77	0.147	0.116	1.47	0.416	0.0214	No CUL

ND	Not detected
99	Exceeds cleanup level
*	Field duplicate of H-21-18-20
1	Listed analytes are those that have historically been detected at the Site

Table 4. Polychlorinated Biphenyls Soil Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Sample Depth (feet)	Aroclor 1016 (mg/kg)	Aroclor 1212 (mg/kg)	Aroclor 1232 (mg/kg)	Aroclor 1242 (mg/kg)	Aroclor 1248 (mg/kg)	Aroclor 1254 (mg/kg)	Aroclor 1260 (mg/kg)
H-16-18-10	12/3/2018	10	ND	ND	ND	ND	ND	ND	ND
H-16-18-15	12/3/2018	15	ND	ND	ND	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	ND	ND	ND	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	ND	ND	ND	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	ND	ND	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	ND	ND	ND	ND	ND	ND
H-19-18-15	12/6/2018	15	ND	ND	ND	ND	ND	ND	ND
H-19-18-25	12/6/2018	25	ND	ND	ND	ND	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	ND	ND	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	ND	ND	ND	ND	ND	ND

ND Not detected

* Field duplicate of H-21-18-20

Table 5. **Metals Soil Analytical Results**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Depth (feet)	Arsenic (mg/kg)	Barium (mg/kg)	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Mercury (mg/kg)	Selenium (mg/kg)	Silver (mg/kg)
H-16-18-10	12/3/2018	10	ND	**200**	ND	81	8.5	ND	ND	ND
H-16-18-15	12/3/2018	15	ND	**92**	ND	63	ND	ND	ND	ND
H-16-18-25	12/4/2018	25	ND	48	ND	35	ND	ND	ND	ND
H-17-18-10	12/4/2018	10	ND	**110**	ND	66	ND	ND	ND	ND
H-18-18-25	12/5/2018	25	ND	56	ND	120	ND	ND	ND	ND
H-19-18-5	12/5/2018	5	ND	**100**	ND	35	13	ND	ND	ND
H-19-18-15	12/6/2018	15	ND	76	ND	53	8.2	ND	ND	ND
H-19-18-25	12/6/2018	25	ND	57	ND	49	6.0	ND	ND	ND
H-20-18-10	12/6/2018	10	ND	**130**	ND	58	ND	ND	ND	ND
H-21-18-20	12/6/2018	20	ND	52	ND	52	ND	ND	ND	ND
H-21-18-21*	12/6/2018	20	ND	55	ND	52	ND	ND	ND	ND
MTCA Cleanup Level			0.146	82.6	2.0	24,000	150	0.105	0.26	0.687

ND	Not detected
99	Exceeds cleanup level
*	Field duplicate of H-21-18-20

Table 6. **Petroleum Hydrocarbon Groundwater Analytical Results**

22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Gasoline Range Hydrocarbons	Diesel Range Hydrocarbons	Oil Range Hydrocarbons
		(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	**76,000**	ND	0.84
H-17-18-GW	12/4/2018	**8,700**	ND	ND
H-18-18-GW	12/5/2018	**1,300**	ND	ND
H-19-18-GW	12/6/2018	**110,000**	ND	380
H-20-18-GW	12/6/2018	590	**690**	ND
H-21-18-GW	12/6/2018	**1,700**	ND	ND
H-22-18-GW*	12/6/2018	**1,800**	-	-
MTCA Cleanup Level		800	500	500

ND	Not detected
99	Exceeds cleanup level
-	Not analyzed
*	Field duplicate of H-21-18-GW

Table 7. Volatile Organic Compounds Detected in Groundwater Samples[1]
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Acetone	Bromo-chloro-methane	Chloroform	Methylene Chloride	2-Butanone	Benzene	1,2-Dichloro-ethane	Toluene	Chloro-benzene	Ethyl-benzene	Total-xylenes	Isopropyl-benzene	n-Propyl-benzene	1,3,5-Trimethyl-benzene	1,2,4-Trimethyl-benzene	sec-Butyl-benzene	p-Isopropyl-toluene	n-Butyl-benzene	Napthalene
		(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	ND	ND	ND	ND	ND	**5,300**	ND	510	ND	**4,600**	**18,600**	170	540	**910**	3,300	24	16	87	**970**
H-17-18-GW	12/4/2018	ND	ND	ND	ND	ND	**2,400**	ND	70	ND	520	**1,710**	43	110	**100**	370	ND	ND	17	95
H-18-18-GW	12/5/2018	ND	ND	ND	ND	ND	**32**	ND	10	ND	84	321	4.0	9.9	16	63	ND	ND	1.2	12
H-19-18-GW	12/6/2018	ND	ND	ND	ND	ND	**760**	ND	**2,000**	ND	**2,200**	**12,000**	420	**830**	**2,100**	7,000	ND	200	**520**	ND
H-20-18-GW	12/6/2018	160	ND	ND	ND	10	**450**	**19**	7.5	0.23	6.2	16.6	15	30	1.8	4.5	2.0	26	2.1	ND
H-21-18-GW	12/6/2018	ND	ND	ND	ND	ND	**30**	ND	26	ND	81	297	7.7	15	23	100	1.8	2.4	ND	28
H-22-18-GW*	12/6/2018	ND	ND	ND	ND	ND	**28**	ND	24	ND	78	284	7.0	14	21	93	1.6	2.2	ND	26
MTCA Cleanup Level		7,200	No CUL	1.41	5.0	4,800	5.0	5.0	1,000	160	700	1,000	800	800	80	No CUL	800	No CUL	400	160

ND Not detected
99 Exceeds cleanup level
* Field duplicate of H-21-18-GW
1 Listed analytes are those that have historically been detected at the Site

Table 8. **Semivolatile Organic Compounds Detected in Groundwater Samples[1]**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	2,4-Dimethyl-phenol	Napthalene	2-Methylnaph-thalene	1-Methylnaph-thalene	Anthra-cene	Acenap-thene	Acenaph-thylene	Diethy-phthalate	Bis(2-Ethyl-hexyl) phthalate	Di-n-butyl-phthalate	Fluorene	Phenan-threne	Fluoran-thene	Pyrene	Benzo[a] anthracene	Chrysene	Benzo[b] fluoranthene	Benzo[a] pyrene	Benzo[j,k] fluoran-thene	Indeno-[1,2,3-cd]-pyrene	Dibenz[a,h] anthracene	Benzo-[g,h,i] perylene
		ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	ug/L	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)	(ug/L)
H-16-18-GW	12/4/2018	9.6	**570**	**150**	**72**	ND	0.23	ND	ND	**17**	ND	0.33	0.32	ND	ND	0.027	0.024	0.012	0.016	ND	ND	ND	0.016
H-17-18-GW	12/4/2018	ND	98	27	**16**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-18-18-GW	12/5/2018	2.7	33	6.7	**4.0**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-19-18-GW	12/6/2018	ND	**280**	**48**	**21**	ND	ND	ND	ND	ND	ND	0.17	0.23	ND	ND	0.025	0.035	0.029	0.020	ND	0.017	ND	0.022
H-20-18-GW	12/6/2018	ND	1.1	2.5	**1.8**	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.28	ND	ND	ND	ND	ND	ND	ND	ND
H-21-18-GW	12/6/2018	ND	8.5	2.4	1.5	ND	ND	ND	ND	**24**	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level		160	160	32	1.51	4,800	960	No CUL	12,800	6.25	1,600	640	No CUL	640	480	0.12	12	0.12	0.1	1.2	0.12	0.012	No CUL

ND	Not detected
99	Exceeds cleanup level
1	Listed analytes are those that have historically been detected at the Site

Table 9. **Polychlorinated Biphenyls Groundwater Analytical Results**
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Aroclor 1016 (ug/L)	Aroclor 1212 (ug/L)	Aroclor 1232 (ug/L)	Aroclor 1242 (ug/L)	Aroclor 1248 (ug/L)	Aroclor 1254 (ug/L)	Aroclor 1260 (ug/L)
H-16-18-GW	12/4/2018	ND	ND	ND	ND	ND	ND	ND
H-17-18-GW	12/4/2018	ND	ND	ND	ND	ND	ND	ND
H-18-18-GW	12/5/2018	ND	ND	ND	ND	ND	ND	ND
H-19-18-GW	12/6/2018	ND	ND	ND	ND	ND	ND	ND
H-20-18-GW	12/6/2018	NA	NA	NA	NA	NA	NA	NA
H-21-18-GW	12/6/2018	ND	ND	ND	ND	ND	ND	ND

ND Not detected
NA Not analyzed

Table 10. Metals Groundwater Analytical Results
22nd Avenue East, East Montlake Place East and East Roanoke Street, Seattle, Washington

Sample ID	Sample Date	Total Arsenic (ug/L)	Dissolved Arsenic (ug/L)	Total Barium (ug/L)	Dissolved Barium (ug/L)	Total Cadmium (ug/L)	Dissolved Cadmium (ug/L)	Total Chromium (ug/L)	Dissolved Chromium (ug/L)	Total Lead (ug/L)	Dissolved Lead (ug/L)	Total Mercury (ug/L)	Dissolved Mercury (ug/L)	Total Selenium (ug/L)	Dissolved Selenium (ug/L)	Total Silver (ug/L)	Dissolved Silver (ug/L)
H-16-18-GW	12/4/2018	**120**	**32**	1,300	150	ND	ND	**430**	ND	**110**	1.7	0.53	ND	ND	ND	ND	ND
H-17-18-GW	12/4/2018	**180**	**12**	**4,100**	66	**7.9**	ND	**2,500**	ND	**170**	ND	**2.2**	ND	59	ND	ND	ND
H-18-18-GW	12/5/2018	**170**	ND	**3,600**	ND	**5.9**	ND	**2,100**	ND	**150**	ND	1.8	ND	16	ND	ND	ND
H-19-18-GW	12/6/2018	**570**	3.9	**9,800**	37	**12**	ND	**4,800**	ND	**800**	1.2	1.8	ND	76	ND	ND	ND
H-20-18-GW	12/6/2018	**580**	**32**	**11,000**	79	**8.2**	ND	**4,500**	ND	**450**	ND	0.60	ND	46	ND	ND	ND
H-21-18-GW	12/6/2018	**52**	ND	820	ND	ND	ND	**420**	ND	**34**	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level		5.0		3,200		5.0		48		15		2.0		80		80	

ND	Not detected
99	Exceeds cleanup level

APPENDICES

APPENDIX A
BORING LOGS

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co. : Holocene
Drilling Rig Eq : Geoprobe 3410LC
Drilling Method : Sonic
Drill Diameter : 4" max
Weather Conditions : cold, clear, 30°F

Job No. :
Boring No. : H-16-18
Job Name : Montlake Phase 2
Logged by : Colin Duffy
Location : Montlake Market
Start Date : 12/3/18 End Date : 12/3/18

% Recov.	Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture ; structure; other; (Geology USCS Classification)]
100%		2330 1130	2/2/3	7.4		5'			grey sandy silt, gravels, moist rounded
100%		2335 1135	1/3/3	36.8		10'			grey silty clay, moist
100%		2345 1145	9/9/7	47.8		15'			grey silty clay, moist layer of granite, likely a cobble
40%		0000 1200	17 19 24	27.8	▼	20			grey silty sand, moist, rounded gravel
100%		0005 1205	38 50/6	38.5		25			grey silty sand, round gravel, moist
						30			
						35			
						40			
						45			
						50			

GROUNDWATER DATA

Water Depth	Time	Date
20'	0045	12/3/18
	H-16-18-GW	

COMMENTS (i.e. materials used; visitors, problems etc.) :
GW sample @ 0045

SUMMARY OF TIME

Boring/Sample : _____ hrs. Standby : _____ hrs.
Setup/Cleanup : _____ hrs. Decon: _____ hrs.
Boring No. : _____ Sheet _____ of _____

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co.: Holocene
Drilling Rig Eq: Geoprobe 8140LC
Drilling Method: Sonic
Drill Diameter: 4" MC
Weather Conditions: clear, 32°F

Job No.:
Boring No.: H-17-15
Job Name: Montlake Phase 2
Logged by: Colin Duffy
Location: Montlake Market
Start Date: 12/4/18 End Date: 8/4/18

o/o Recov.

Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture; structure; other; (Geology USCS Classification)]
								grey, silty, sand, moist
40%	0200	4 3	1.4		5'			
		2 3						brown/grey, dense, silty, clay, moist
100%	0220	4 8	16.4		10'			
		5 28						wet sandy silt, grey at top to
100%	0230	35	3.8		15'			very dense, dark tan silty sand at bottom
		21 33						
100%	0250	43	5.6	▽	20'			Dry, dense, brown/grey sandy silt
		17 26						
100%	0310	28	5.8		25'			grey silty sand, rounded gravel moist

GROUNDWATER DATA

Water Depth	Time	Date
20'	0330	12/4/15
	H-17-18-GW	

SUMMARY OF TIME

Boring/Sample: _____ hrs. Standby: _____ hrs.
Setup/Cleanup: _____ hrs. Decon: _____ hrs.
Boring No.: _____ Sheet _____ of _____

COMMENTS (i.e. materials used; visitors, problems etc.):
GW sample at 0330.

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co.: HOLOCENE
Drilling Rig Eq: Geprobe 8140LC
Drilling Method: Sonic
Drill Diameter: 4"
Weather Conditions: 38°F Clear

Job No.:
Boring No.: H-18-18
Job Name: Montlake Phase II
Logged by: Colin Duffy
Location: Montlake Market
Start Date: 12/4/18 End Date: 12/5/18

Recovery (%)	Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture; structure; other; (Geology USCS Classification)]
		0025	4						light brown sandy silt, Dry
100%		~~1025~~	13			5'			
			21	0.0					
		0045							
50%		~~1045~~	50/6			10'			light brown/grey sandy silt w/
				0.0					rounded gravels, dry
			14						
100%		0100	25			15'			light brown sandy silt, round gravels
			46	0.0					dry/moist
50%			50/6			20'			grey sandy silt/lean clay, dry
		0120		0.0	▽				
50%									wet sand lense
						25'			
		0140	50/1	0.0					grey wet silty sand

GROUNDWATER DATA

Water Depth	Time	Date
20'	0145	12/5/18

SUMMARY OF TIME

Boring/Sample: _____ hrs. Standby: _____ hrs.
Setup/Cleanup: _____ hrs. Decon: _____ hrs.
Boring No.: _____ Sheet _____ of _____

COMMENTS (i.e. materials used; visitors, problems etc.):
GW Sample H-18-18-GW

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co.: Holocene
Drilling Rig Eq: Geoprobe 8140LC
Drilling Method: Sonic
Drill Diameter: 4"
Weather Conditions: 30°F, clear

Job No.:
Boring No.: H-19-18
Job Name: Montlake Phase II
Logged by: C. Dotts
Location: Montlake Market
Start Date: 12/5/18 End Date: 12/6/18

% recov.	Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture; structure; other; (Geology USCS Classification)]
10%		2340	5 1 1			5'			Dk grey silty sand, angular gravel, dry (limited quantity)
		2340		557					
			4						light brown/grey lean clay, moist
100%		2345	5 8	6/81		10'			
			6						
100%		0000	7 11	1605		15'			light brown/grey lean clay, moist silty sand lenses.
			18						
100%		0015	24 50/5	221	▽	20'			light brown/grey sandy silt, moist
20%		0024	50/4	244		25'			grey sandy silt, moist

GROUNDWATER DATA

Water Depth	Time	Date
20'	0911	12/6/18

SUMMARY OF TIME

Boring/Sample: _____ hrs. Standby: _____ hrs.
Setup/Cleanup: _____ hrs. Decon: _____ hrs.
Boring No.: _____ Sheet _____ of _____

COMMENTS (i.e. materials used; visitors, problems etc.):
GW sample H-19-18-GW

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co.: Holocene
Drilling Rig Eq: Geoprobe 8140LC
Drilling Method: Sonic
Drill Diameter: 4"
Weather Conditions: 28°F Clear

Job No.:
Boring No.: H-20-18
Job Name: Montlake Market Phase 2
Logged by: C. Duffy
Location: Montlake Market
Start Date: 12/6/18 End Date: 12/6/18

% Recovery	Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture; structure; other; (Geology USCS Classification)]
10%			1 1 2						grey silty sand, moist
		0212		10.7		5'			
			1						grey silt sand, moist
100%		0220	0 1	12.0		10'			
			4						grey silty sand, wet
100%		0230	15 45	3.6		15'			
									light grey sandy silt, dry
60%		0242	27 50/5	2.2	▽	20			
									grey silty sand, wet gravel
100%		0305	40 50/2	1.1		25'			

GROUNDWATER DATA

Water Depth	Time	Date
25'	0320	12/6/18

SUMMARY OF TIME

Boring/Sample: _____ hrs. Standby: _____ hrs.
Setup/Cleanup: _____ hrs. Decon: _____ hrs.
Boring No.: _____ Sheet _____ of _____

COMMENTS (i.e. materials used; visitors, problems etc.):
GW sample H-20-18-GW
bailer used, limited vol.
VOCs, metals D only
SVOCs C1 bottle

INNOVEX ENVIRONMENTAL MANAGEMENT, INC.

FIELD LOG OF BORING

Drilling Co.: Holocene
Drilling Rig Eq: Geoprobe 8140LC
Drilling Method: Sonic
Drill Diameter: 4"
Weather Conditions: 38° clear

Job No.:
Boring No.: H-21-18
Job Name: Montlake Phase 2
Logged by: C. Duffy
Location: Montlake Market
Start Date: 12/6/18 End Date: 12/6/18

% recovery	Well Construction	Time	Blows/6 in.	Headspace PID/OVA	Sample ID (X = Lab Sample)	Depth (ft)	Sample Interval	USCS Code	FIELD CLASSIFICATION [Density/consistency, color, minor, MAJOR, then trace constituents; moisture; structure; other; (Geology USCS Classification)]
									~~Very~~ light brown grey sandy silt, moist
40%		2030	X	0.0		5			X = weight of hammer
			9						Brown silty sand moist to wet
90%		2037	8 16	0.0		10'			
									Brown silty sand, wet
90%		2048	50/5	0.0	▽	15'			
			210						Brown silty sand w/ gravel, wet
100%		2316	46 50/4	0.0		20'			Dense ~~Hard~~ grey sandy silt, moist
						~~25~~			

GROUNDWATER DATA

Water Depth	Time	Date
15'	2315	12/6/18

SUMMARY OF TIME

Boring/Sample: _____ hrs. Standby: _____ hrs.
Setup/Cleanup: _____ hrs. Decon: _____ hrs.
Boring No.: _____ Sheet _____ of _____

COMMENTS (i.e. materials used; visitors, problems etc.):
GW sample H-21-18-GW
Dup H-22-18-GW VOCs/Gro only

APPENDIX B
ANALYTICAL REPORTS

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 5, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-014

Dear Glenn

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

Case Narrative

Samples were collected on December 3 and 4, 2018 and received by the laboratory on December 4, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C (soil) Analysis

Some MTCA Method A cleanup levels are non-achievable for samples H-16-18-10, H-16-18-15 and H-16-18-25 due to the necessary dilution of the samples.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
Gasoline	**15**	14	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*57-129*				
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
Gasoline	**130**	12	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*86*	*57-129*				
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
Gasoline	**17**	11	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*82*	*57-129*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*57-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-208-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*76*	*82*	*57-129*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Gasoline	**76000**	5000	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*93*	*66-117*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Gasoline	**ND**	100	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-003-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*90*	*90*	*66-117*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
Diesel Range Organics	**ND**	96	NWTPH-Dx	12-4-18	12-5-18	U1,M1
Lube Oil Range Organics	**ND**	64	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
Diesel Range Organics	**ND**	140	NWTPH-Dx	12-4-18	12-5-18	U1,M1
Lube Oil Range Organics	**ND**	61	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*78*	*50-150*				
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
Diesel Range Organics	**ND**	28	NWTPH-Dx	12-4-18	12-5-18	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-4-18	12-4-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-208-02										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range Organics	**93.1**	**56.8**	NA	NA		NA		NA	48	NA	
Surrogate:											
o-Terphenyl						*80*	*94*	*50-150*			

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Diesel Range Organics	**ND**	6.9	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	**0.84**	0.50	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*88*	*50-150*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB1205W1										
	ORIG	DUP									
Diesel Range	**0.974**	**0.929**	NA	NA		NA		NA	5	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*94*	*95*	*50-150*			

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
Dichlorodifluoromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.70	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.35	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Benzene	1.4	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.35	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.070	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
1,1,2-Trichloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	1.8	0.070	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.14	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.17	0.070	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.070	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	0.55	0.070	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.071	0.070	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.18	0.070	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.35	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.35	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.099	0.070	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.070	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*109*	*68-139*				
Toluene-d8	*98*	*79-128*				
4-Bromofluorobenzene	*100*	*71-132*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
Dichlorodifluoromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.53	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.26	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Benzene	0.50	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.26	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.053	EPA 8260C	12-4-18	12-4-18	

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Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
1,1,2-Trichloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	2.6	0.053	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	3.1	0.11	EPA 8260C	12-4-18	12-4-18	
o-Xylene	0.50	0.053	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.31	0.053	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.053	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	1.3	0.053	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	1.2	0.053	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	4.7	0.053	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.18	0.053	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	0.14	0.053	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.75	0.053	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.26	EPA 8260C	12-4-18	12-4-18	
Naphthalene	1.8	0.053	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.053	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-139*				
Toluene-d8	*98*	*79-128*				
4-Bromofluorobenzene	*99*	*71-132*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
Dichlorodifluoromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.49	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.24	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Benzene	0.17	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.049	EPA 8260C	12-4-18	12-4-18	

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Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
1,1,2-Trichloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	0.91	0.049	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	1.9	0.097	EPA 8260C	12-4-18	12-4-18	
o-Xylene	0.44	0.049	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.13	0.049	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.049	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	0.48	0.049	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	0.62	0.049	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	2.0	0.049	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.072	0.049	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	0.28	0.049	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.45	0.049	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.049	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*106*	*68-139*				
Toluene-d8	*100*	*79-128*				
4-Bromofluorobenzene	*102*	*71-132*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.010	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-139*				
Toluene-d8	*99*	*79-128*				
4-Bromofluorobenzene	*99*	*71-132*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0431**	**0.0428**	0.0500	0.0500	86	86	53-141	1	17	
Benzene	**0.0494**	**0.0492**	0.0500	0.0500	99	98	70-130	0	15	
Trichloroethene	**0.0469**	**0.0454**	0.0500	0.0500	94	91	74-122	3	16	
Toluene	**0.0478**	**0.0472**	0.0500	0.0500	96	94	76-130	1	15	
Chlorobenzene	**0.0451**	**0.0438**	0.0500	0.0500	90	88	75-120	3	14	
Surrogate:										
Dibromofluoromethane					*105*	*106*	*68-139*			
Toluene-d8					*100*	*99*	*79-128*			
4-Bromofluorobenzene					*99*	*99*	*71-132*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Dichlorodifluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	250	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	10	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	50	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	250	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Benzene	5300	100	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	100	EPA 8260C	12-4-18	12-4-18	
Toluene	510	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
1,1,2-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	100	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	4600	100	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	14000	200	EPA 8260C	12-4-18	12-4-18	
o-Xylene	4600	100	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	50	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	170	10	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	540	10	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	910	10	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	3300	100	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	24	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	16	10	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	87	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	10	EPA 8260C	12-4-18	12-4-18	
Naphthalene	970	50	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*91*	*75-127*				
Toluene-d8	*92*	*80-127*				
4-Bromofluorobenzene	*88*	*78-125*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-014-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-014-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*101*	*75-127*
Toluene-d8	*99*	*80-127*
4-Bromofluorobenzene	*96*	*78-125*

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

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Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*102*	*75-127*
Toluene-d8	*100*	*80-127*
4-Bromofluorobenzene	*97*	*78-125*

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.1**	**10.4**	10.0	10.0	111	104	62-129	7	15	
Benzene	**10.7**	**10.2**	10.0	10.0	107	102	77-127	5	15	
Trichloroethene	**10.3**	**9.79**	10.0	10.0	103	98	70-120	5	15	
Toluene	**10.4**	**10.0**	10.0	10.0	104	100	82-123	4	15	
Chlorobenzene	**9.86**	**9.17**	10.0	10.0	99	92	79-120	7	15	
Surrogate:										
Dibromofluoromethane					*99*	*103*	*75-127*			
Toluene-d8					*99*	*100*	*80-127*			
4-Bromofluorobenzene					*95*	*97*	*78-125*			

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Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
n-Nitrosodimethylamine	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Pyridine	**ND**	0.41	EPA 8270D	12-4-18	12-5-18	
Phenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Aniline	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Chlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Benzyl alcohol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachloroethane	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Nitrobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Isophorone	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Nitrophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Naphthalene	**2.4**	0.041	EPA 8270D	12-4-18	12-5-18	
4-Chloroaniline	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Hexachlorobutadiene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Methylnaphthalene	**2.7**	0.20	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	**1.4**	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Chloronaphthalene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2-Nitroaniline	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Dimethylphthalate	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Acenaphthylene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
2,4-Dinitrophenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Acenaphthene	**0.014**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Dibenzofuran	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Diethylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
4-Nitroaniline	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Fluorene	**0.025**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Hexachlorobenzene	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Pentachlorophenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Phenanthrene	**0.099**	0.041	EPA 8270D	12-4-18	12-5-18	
Anthracene	**0.023**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	0.041	EPA 8270D	12-4-18	12-5-18	
Di-n-butylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Fluoranthene	**0.042**	0.041	EPA 8270D	12-4-18	12-5-18	
Benzidine	**ND**	0.41	EPA 8270D	12-4-18	12-5-18	
Pyrene	**0.041**	0.041	EPA 8270D	12-4-18	12-5-18	
Butylbenzylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Di-n-octylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.0081	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*81*	*19 - 103*				
Phenol-d6	*80*	*30 - 103*				
Nitrobenzene-d5	*82*	*27 - 105*				
2-Fluorobiphenyl	*84*	*36 - 102*				
2,4,6-Tribromophenol	*92*	*33 - 110*				
Terphenyl-d14	*84*	*38 - 108*				

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Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	0.33	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	0.33	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*81*	*19 - 103*				
Phenol-d6	*85*	*30 - 103*				
Nitrobenzene-d5	*81*	*27 - 105*				
2-Fluorobiphenyl	*87*	*36 - 102*				
2,4,6-Tribromophenol	*93*	*33 - 110*				
Terphenyl-d14	*91*	*38 - 108*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.19**	**1.21**	1.33	1.33	89	91	45 - 105	2	29	
2-Chlorophenol	**1.18**	**1.19**	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	**0.582**	**0.567**	0.667	0.667	87	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	**0.574**	**0.564**	0.667	0.667	86	85	45 - 105	2	26	
1,2,4-Trichlorobenzene	**0.604**	**0.582**	0.667	0.667	91	87	45 - 105	4	32	
4-Chloro-3-methylphenol	**1.23**	**1.20**	1.33	1.33	92	90	55 - 105	2	21	
Acenaphthene	**0.583**	**0.566**	0.667	0.667	87	85	48 - 105	3	21	
4-Nitrophenol	**1.10**	**1.09**	1.33	1.33	83	82	53 - 105	1	20	
2,4-Dinitrotoluene	**0.643**	**0.634**	0.667	0.667	96	95	47 - 105	1	19	
Pentachlorophenol	**1.17**	**1.04**	1.33	1.33	88	78	35 - 125	12	26	
Pyrene	**0.599**	**0.585**	0.667	0.667	90	88	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					*87*	*85*	*19 - 103*			
Phenol-d6					*87*	*88*	*30 - 103*			
Nitrobenzene-d5					*85*	*82*	*27 - 105*			
2-Fluorobiphenyl					*90*	*88*	*36 - 102*			
2,4,6-Tribromophenol					*100*	*93*	*33 - 110*			
Terphenyl-d14					*87*	*86*	*38 - 108*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
n-Nitrosodimethylamine	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	0.43	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**1.1**	0.043	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**1.0**	0.043	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	**0.51**	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
2,4-Dinitrophenol	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	0.043	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	0.43	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	0.21	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.0086	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*74*	*19 - 103*				
Phenol-d6	*75*	*30 - 103*				
Nitrobenzene-d5	*63*	*27 - 105*				
2-Fluorobiphenyl	*68*	*36 - 102*				
2,4,6-Tribromophenol	*72*	*33 - 110*				
Terphenyl-d14	*61*	*38 - 108*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
n-Nitrosodimethylamine	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	0.37	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**0.41**	0.037	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**0.40**	0.037	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	**0.18**	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
2,4-Dinitrophenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	0.037	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	0.37	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.0074	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*79*	*19 - 103*				
Phenol-d6	*79*	*30 - 103*				
Nitrobenzene-d5	*71*	*27 - 105*				
2-Fluorobiphenyl	*83*	*36 - 102*				
2,4,6-Tribromophenol	*90*	*33 - 110*				
Terphenyl-d14	*84*	*38 - 108*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	0.33	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**ND**	0.017	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	0.33	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*85*	*19 - 103*				
Phenol-d6	*89*	*30 - 103*				
Nitrobenzene-d5	*87*	*27 - 105*				
2-Fluorobiphenyl	*94*	*36 - 102*				
2,4,6-Tribromophenol	*96*	*33 - 110*				
Terphenyl-d14	*88*	*38 - 108*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.22**	**1.18**	1.33	1.33	92	89	45 - 105	3	29	
2-Chlorophenol	**1.19**	**1.18**	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	**0.585**	**0.570**	0.667	0.667	88	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	**0.560**	**0.551**	0.667	0.667	84	83	45 - 105	2	26	
1,2,4-Trichlorobenzene	**0.652**	**0.634**	0.667	0.667	98	95	45 - 105	3	32	
4-Chloro-3-methylphenol	**1.30**	**1.22**	1.33	1.33	98	92	55 - 105	6	21	
Acenaphthene	**0.600**	**0.573**	0.667	0.667	90	86	48 - 105	5	21	
4-Nitrophenol	**1.11**	**1.07**	1.33	1.33	83	80	53 - 105	4	20	
2,4-Dinitrotoluene	**0.695**	**0.652**	0.667	0.667	104	98	47 - 105	6	19	
Pentachlorophenol	**1.31**	**1.39**	1.33	1.33	98	105	35 - 125	6	26	
Pyrene	**0.627**	**0.587**	0.667	0.667	94	88	55 - 110	7	17	
Surrogate:										
2-Fluorophenol					*90*	*85*	*19 - 103*			
Phenol-d6					*92*	*88*	*30 - 103*			
Nitrobenzene-d5					*89*	*87*	*27 - 105*			
2-Fluorobiphenyl					*94*	*89*	*36 - 102*			
2,4,6-Tribromophenol					*103*	*100*	*33 - 110*			
Terphenyl-d14					*93*	*86*	*38 - 108*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
n-Nitrosodimethylamine	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**9.6**	5.4	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**570**	22	EPA 8270D	12-4-18	12-5-18	
4-Chloroaniline	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**150**	5.4	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	**72**	5.4	EPA 8270D	12-4-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
2,4-Dinitrophenol	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**0.23**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Fluorene	**0.33**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	1.2	EPA 8270D	12-4-18	12-4-18	U1
4-Bromophenyl-phenylether	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**0.32**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.11	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	5.4	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**0.027**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**0.024**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**17**	5.4	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	1.1	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**0.012**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**0.016**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**0.016**	0.011	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*19*	*12 - 80*				
Phenol-d6	*42*	*10 - 82*				
Nitrobenzene-d5	*57*	*30 - 103*				
2-Fluorobiphenyl	*58*	*33 - 103*				
2,4,6-Tribromophenol	*84*	*20 - 121*				
Terphenyl-d14	*42*	*32 - 113*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*54*	*12 - 80*				
Phenol-d6	*43*	*10 - 82*				
Nitrobenzene-d5	*84*	*30 - 103*				
2-Fluorobiphenyl	*90*	*33 - 103*				
2,4,6-Tribromophenol	*100*	*20 - 121*				
Terphenyl-d14	*108*	*32 - 113*				

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**16.5**	**16.0**	40.0	40.0	41	40	24 - 52	3	28	
2-Chlorophenol	**29.5**	**28.1**	40.0	40.0	74	70	44 - 91	5	30	
1,4-Dichlorobenzene	**13.9**	**12.8**	20.0	20.0	70	64	36 - 82	8	33	
n-Nitroso-di-n-propylamine	**14.8**	**14.4**	20.0	20.0	74	72	43 - 93	3	29	
1,2,4-Trichlorobenzene	**14.6**	**14.1**	20.0	20.0	73	71	40 - 86	3	28	
4-Chloro-3-methylphenol	**34.4**	**35.6**	40.0	40.0	86	89	49 - 99	3	25	
Acenaphthene	**15.9**	**16.1**	20.0	20.0	80	81	47 - 90	1	25	
4-Nitrophenol	**17.9**	**17.1**	40.0	40.0	45	43	23 - 61	5	30	
2,4-Dinitrotoluene	**17.5**	**17.6**	20.0	20.0	88	88	42 - 97	1	26	
Pentachlorophenol	**36.2**	**36.6**	40.0	40.0	91	92	39 - 115	1	29	
Pyrene	**18.8**	**18.8**	20.0	20.0	94	94	51 - 100	0	22	
Surrogate:										
2-Fluorophenol					*51*	*47*	*12 - 80*			
Phenol-d6					*39*	*37*	*10 - 82*			
Nitrobenzene-d5					*78*	*76*	*30 - 103*			
2-Fluorobiphenyl					*79*	*79*	*33 - 103*			
2,4,6-Tribromophenol					*85*	*84*	*20 - 121*			
Terphenyl-d14					*93*	*92*	*32 - 113*			

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
Aroclor 1016	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.064	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*39-130*				
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
Aroclor 1016	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.061	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*39-130*				
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
Aroclor 1016	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.056	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*75*	*39-130*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*39-130*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.368**	**0.386**	0.500	0.500	N/A	**74**	**77**	56-124	5	18	
Surrogate:											
DCB						*88*	*93*	*39-130*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Aroclor 1016	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	**ND**	0.066	EPA 8082A	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*76*	*44-144*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*44-144*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1204W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.525**	**0.535**	0.500	0.500	N/A	**105**	**107**	71-131	2	12	
Surrogate:											
DCB						*124*	*123*	*44-144*			

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-10**					
Laboratory ID:	12-014-02					
Arsenic	**ND**	13	EPA 6010D	12-4-18	12-4-18	
Barium	**200**	3.2	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.64	EPA 6010D	12-4-18	12-4-18	
Chromium	**81**	0.64	EPA 6010D	12-4-18	12-4-18	
Lead	**8.5**	6.4	EPA 6010D	12-4-18	12-4-18	
Mercury	**ND**	0.32	EPA 7471B	12-5-18	12-5-18	
Selenium	**ND**	13	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.3	EPA 6010D	12-4-18	12-4-18	
Client ID:	**H-16-18-15**					
Laboratory ID:	12-014-03					
Arsenic	**ND**	12	EPA 6010D	12-4-18	12-4-18	
Barium	**92**	3.0	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.61	EPA 6010D	12-4-18	12-4-18	
Chromium	**63**	0.61	EPA 6010D	12-4-18	12-4-18	
Lead	**ND**	6.1	EPA 6010D	12-4-18	12-4-18	
Mercury	**ND**	0.30	EPA 7471B	12-5-18	12-5-18	
Selenium	**ND**	12	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.2	EPA 6010D	12-4-18	12-4-18	
Client ID:	**H-16-18-25**					
Laboratory ID:	12-014-05					
Arsenic	**ND**	11	EPA 6010D	12-4-18	12-4-18	
Barium	**48**	2.8	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.56	EPA 6010D	12-4-18	12-4-18	
Chromium	**35**	0.56	EPA 6010D	12-4-18	12-4-18	
Lead	**ND**	5.6	EPA 6010D	12-4-18	12-4-18	
Mercury	**ND**	0.28	EPA 7471B	12-5-18	12-5-18	
Selenium	**ND**	11	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.1	EPA 6010D	12-4-18	12-4-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204SM1					
Arsenic	**ND**	10	EPA 6010D	12-4-18	12-4-18	
Barium	**ND**	2.5	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.50	EPA 6010D	12-4-18	12-4-18	
Chromium	**ND**	0.50	EPA 6010D	12-4-18	12-4-18	
Lead	**ND**	5.0	EPA 6010D	12-4-18	12-4-18	
Selenium	**ND**	10	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.0	EPA 6010D	12-4-18	12-4-18	
Laboratory ID:	MB1205S1					
Mercury	**ND**	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-257-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**23.9**	**24.0**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**15.2**	**15.2**	NA	NA		NA		NA	0	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	11-258-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-257-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**93.9**	**93.3**	100	100	ND	**94**	**93**	75-125	1	20	
Barium	**133**	**124**	100	100	23.9	**109**	**101**	75-125	6	20	
Cadmium	**46.4**	**46.1**	50.0	50.0	ND	**93**	**92**	75-125	1	20	
Chromium	**113**	**110**	100	100	15.2	**98**	**95**	75-125	3	20	
Lead	**236**	**237**	250	250	ND	**94**	**95**	75-125	0	20	
Selenium	**95.7**	**96.2**	100	100	ND	**96**	**96**	75-125	1	20	
Silver	**22.2**	**22.4**	25.0	25.0	ND	**89**	**90**	75-125	1	20	
Laboratory ID:	11-258-01										
Mercury	**0.542**	**0.549**	0.500	0.500	0.0178	**105**	**106**	80-120	1	20	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Arsenic	**120**	33	EPA 200.8	12-5-18	12-5-18	
Barium	**1300**	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**430**	110	EPA 200.8	12-5-18	12-5-18	
Lead	**110**	11	EPA 200.8	12-5-18	12-5-18	
Mercury	**0.53**	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	**ND**	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	**ND**	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Lead	**ND**	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	**ND**	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Laboratory ID:	MB1205W1					
Mercury	**ND**	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-03										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**0.790**	**0.845**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	11-213-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**232**	**228**	222	222	ND	**105**	**103**	75-125	2	20	
Barium	**233**	**233**	222	222	ND	**105**	**105**	75-125	0	20	
Cadmium	**231**	**236**	222	222	ND	**104**	**106**	75-125	2	20	
Chromium	**218**	**213**	222	222	ND	**98**	**96**	75-125	2	20	
Lead	**211**	**209**	222	222	ND	**95**	**94**	75-125	1	20	
Selenium	**199**	**217**	222	222	ND	**90**	**98**	75-125	9	20	
Silver	**241**	**239**	222	222	ND	**109**	**108**	75-125	1	20	
Laboratory ID:	12-003-01										
Mercury	**6.11**	**5.70**	6.25	6.25	0.790	**85**	**79**	75-125	7	20	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-16-18-GW**					
Laboratory ID:	12-014-06					
Arsenic	**32**	3.0	EPA 200.8	12-4-18	12-5-18	
Barium	**150**	25	EPA 200.8	12-4-18	12-5-18	
Cadmium	**ND**	4.0	EPA 200.8	12-4-18	12-5-18	
Chromium	**ND**	10	EPA 200.8	12-4-18	12-5-18	
Lead	**1.7**	1.0	EPA 200.8	12-4-18	12-5-18	
Mercury	**ND**	0.50	EPA 7470A	12-4-18	12-5-18	
Selenium	**ND**	5.0	EPA 200.8	12-4-18	12-5-18	
Silver	**ND**	10	EPA 200.8	12-4-18	12-5-18	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204F1					
Arsenic	**ND**	3.0	EPA 200.8	12-4-18	12-4-18	
Barium	**ND**	25	EPA 200.8	12-4-18	12-4-18	
Cadmium	**ND**	4.0	EPA 200.8	12-4-18	12-4-18	
Chromium	**ND**	10	EPA 200.8	12-4-18	12-4-18	
Lead	**ND**	1.0	EPA 200.8	12-4-18	12-4-18	
Selenium	**ND**	5.0	EPA 200.8	12-4-18	12-4-18	
Silver	**ND**	10	EPA 200.8	12-4-18	12-4-18	
Laboratory ID:	MB1204F1					
Mercury	**ND**	0.50	EPA 7470A	12-4-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-02										
	ORIG	DUP									
Arsenic	**3.16**	**3.80**	NA	NA		NA		NA	18	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**79.6**	**83.6**	80.0	80.0	3.16	**96**	**101**	75-125	5	20	
Barium	**87.8**	**83.8**	80.0	80.0	ND	**110**	**105**	75-125	5	20	
Cadmium	**79.4**	**79.4**	80.0	80.0	ND	**99**	**99**	75-125	0	20	
Chromium	**75.4**	**76.4**	80.0	80.0	ND	**94**	**96**	75-125	1	20	
Lead	**76.0**	**77.6**	80.0	80.0	ND	**95**	**97**	75-125	2	20	
Selenium	**79.0**	**82.2**	80.0	80.0	ND	**99**	**103**	75-125	4	20	
Silver	**87.2**	**87.2**	80.0	80.0	ND	**109**	**109**	75-125	0	20	
Laboratory ID:	12-003-01										
Mercury	**5.38**	**5.10**	12.5	12.5	ND	**43**	**41**	75-125	5	20	

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Date of Report: December 5, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-014
Project: Montlake

% MOISTURE

Date Analyzed: 12-4-18

Client ID	Lab ID	% Moisture
H-16-18-10	12-014-02	22
H-16-18-15	12-014-03	18
H-16-18-25	12-014-05	10

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Haymon
Sampled by: Colin Duffy

Turnaround Request (in working days) (Check One): ☐ Same Day ☒ 1 Day ☐ 2 Days ☐ 3 Days ☐ Standard (7 Days) ☐ _____ (other)

Laboratory Number: 12-014

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total ~~MTCA~~ RCRA Metals	TCLP Metals	HEM (oil and grease) 1664A		Dissolved RCRA Metals			% Moisture
1	H-16-18-5	12/3/18	2330	S	5			X	X	X			X		X					X		HOLD					X
2	-10		2335		5			X	X	X			X		X					X		~~HOLD~~					X
3	-15		2345		5			X	X	X			X		X					X							X
4	-20	12/4/18	0000		5			X	X	X			X		X					X		HOLD					X
5	-25	~~12/4/18~~	0025		5			X	X	X			X		X					X		~~HOLD~~					X
	-30				5			X	X	X			X		X					X							X
6	H-16-18-GW	~~12/3/18~~	0045	W	12			X	X	X			X		X					X				X			X
7	Trip Blank	12/4/18	—	W	1					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	IEM	12/4/18	0615
Received	[signature]	OSE	12.4.18	6:15A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions:
Hold samples shown above
(X) Added 12/4/18. DB (1 day TAT)

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 6, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-015

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 4, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

Case Narrative

Samples were collected on December 4, 2018 and received by the laboratory on December 4, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C (soil) Analysis

Some MTCA Method A cleanup levels are non-achievable for sample H-17-18-10 due to the necessary dilution of the sample.

Semivolatiles EPA 8270D/SIM (water) Analysis

Sample H-17-18-GW had three surrogate recoveries outside of control limits. The sample was re-extracted and re-analyzed with similar results, indicating probable matrix interference.

Please note that any other QA/QC issues associated with these extractions and analyses will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
Gasoline	**180**	9.7	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*96*	*57-129*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*57-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-208-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*76*	*82*	*57-129*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Gasoline	**8700**	1000	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*97*	*66-117*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Gasoline	**ND**	100	NWTPH-Gx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*84*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-003-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*90*	*90*	*66-117*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
Diesel Range Organics	**ND**	30	NWTPH-Dx	12-4-18	12-5-18	
Lube Oil Range Organics	**ND**	59	NWTPH-Dx	12-4-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*77*	*50-150*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-4-18	12-4-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-208-02										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil Range Organics	**93.1**	**56.8**	NA	NA		NA		NA	48	NA	
Surrogate:											
o-Terphenyl						*80*	*94*	*50-150*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Diesel Range Organics	**ND**	1.5	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	**ND**	0.49	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*86*	*50-150*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB1205W1										
	ORIG	DUP									
Diesel Range	**0.974**	**0.929**	NA	NA		NA		NA	5	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*94*	*95*	*50-150*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
Dichlorodifluoromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.48	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.24	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Benzene	0.098	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.048	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
1,1,2-Trichloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	0.33	0.048	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.096	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	0.44	0.048	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.048	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	1.8	0.048	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	0.052	0.048	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	0.11	0.048	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	0.57	0.048	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	0.45	0.048	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	2.0	0.048	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.24	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.24	EPA 8260C	12-4-18	12-4-18	
Naphthalene	0.32	0.048	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.048	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*107*	*68-139*
Toluene-d8	*105*	*79-128*
4-Bromofluorobenzene	*93*	*71-132*

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	0.010	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*108*	*68-139*				
Toluene-d8	*99*	*79-128*				
4-Bromofluorobenzene	*99*	*71-132*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0431**	**0.0428**	0.0500	0.0500	86	86	53-141	1	17	
Benzene	**0.0494**	**0.0492**	0.0500	0.0500	99	98	70-130	0	15	
Trichloroethene	**0.0469**	**0.0454**	0.0500	0.0500	94	91	74-122	3	16	
Toluene	**0.0478**	**0.0472**	0.0500	0.0500	96	94	76-130	1	15	
Chlorobenzene	**0.0451**	**0.0438**	0.0500	0.0500	90	88	75-120	3	14	
Surrogate:										
Dibromofluoromethane					*105*	*106*	*68-139*			
Toluene-d8					*100*	*99*	*79-128*			
4-Bromofluorobenzene					*99*	*99*	*71-132*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Dichlorodifluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	250	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	50	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	10	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	50	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	250	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Benzene	2400	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	50	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	100	EPA 8260C	12-4-18	12-4-18	
Toluene	70	50	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	10	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
1,1,2-Trichloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	100	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	520	10	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	1300	20	EPA 8260C	12-4-18	12-4-18	
o-Xylene	410	10	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	10	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	50	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	43	10	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	110	10	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	100	10	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	370	10	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	17	10	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	50	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	10	EPA 8260C	12-4-18	12-4-18	
Naphthalene	95	50	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	10	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*91*	*75-127*
Toluene-d8	*94*	*80-127*
4-Bromofluorobenzene	*89*	*78-125*

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-015-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

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Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-015-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*99*	*75-127*
Toluene-d8	*97*	*80-127*
4-Bromofluorobenzene	*94*	*78-125*

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloromethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Acetone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Iodomethane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-4-18	12-4-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Butanone	ND	5.0	EPA 8260C	12-4-18	12-4-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chloroform	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Benzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Trichloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Dibromomethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Toluene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Hexanone	ND	2.0	EPA 8260C	12-4-18	12-4-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-4-18	12-4-18	
o-Xylene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Styrene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromoform	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Bromobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
Naphthalene	ND	1.0	EPA 8260C	12-4-18	12-4-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-4-18	12-4-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*102*	*75-127*
Toluene-d8	*100*	*80-127*
4-Bromofluorobenzene	*97*	*78-125*

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.1**	**10.4**	10.0	10.0	111	104	62-129	7	15	
Benzene	**10.7**	**10.2**	10.0	10.0	107	102	77-127	5	15	
Trichloroethene	**10.3**	**9.79**	10.0	10.0	103	98	70-120	5	15	
Toluene	**10.4**	**10.0**	10.0	10.0	104	100	82-123	4	15	
Chlorobenzene	**9.86**	**9.17**	10.0	10.0	99	92	79-120	7	15	
Surrogate:										
Dibromofluoromethane					*99*	*103*	*75-127*			
Toluene-d8					*99*	*100*	*80-127*			
4-Bromofluorobenzene					*95*	*97*	*78-125*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
n-Nitrosodimethylamine	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Pyridine	**ND**	0.39	EPA 8270D	12-4-18	12-5-18	
Phenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Aniline	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Chlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Benzyl alcohol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Hexachloroethane	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Nitrobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Isophorone	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Nitrophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Naphthalene	**0.023**	0.020	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Hexachlorobutadiene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Methylnaphthalene	**0.070**	0.039	EPA 8270D	12-4-18	12-5-18	
1-Methylnaphthalene	**0.018**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Chloronaphthalene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2-Nitroaniline	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Dimethylphthalate	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Acenaphthylene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
2,4-Dinitrophenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Acenaphthene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Dibenzofuran	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Diethylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
4-Nitroaniline	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Fluorene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Hexachlorobenzene	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Pentachlorophenol	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Phenanthrene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	0.039	EPA 8270D	12-4-18	12-5-18	
Di-n-butylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Fluoranthene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	0.39	EPA 8270D	12-4-18	12-5-18	
Pyrene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Di-n-octylphthalate	**ND**	0.20	EPA 8270D	12-4-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.0079	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*77*	*19 - 103*				
Phenol-d6	*77*	*30 - 103*				
Nitrobenzene-d5	*74*	*27 - 105*				
2-Fluorobiphenyl	*75*	*36 - 102*				
2,4,6-Tribromophenol	*80*	*33 - 110*				
Terphenyl-d14	*72*	*38 - 108*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	0.33	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	0.033	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	0.33	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*81*	*19 - 103*				
Phenol-d6	*85*	*30 - 103*				
Nitrobenzene-d5	*81*	*27 - 105*				
2-Fluorobiphenyl	*87*	*36 - 102*				
2,4,6-Tribromophenol	*93*	*33 - 110*				
Terphenyl-d14	*91*	*38 - 108*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.19**	**1.21**	1.33	1.33	89	91	45 - 105	2	29	
2-Chlorophenol	**1.18**	**1.19**	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	**0.582**	**0.567**	0.667	0.667	87	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	**0.574**	**0.564**	0.667	0.667	86	85	45 - 105	2	26	
1,2,4-Trichlorobenzene	**0.604**	**0.582**	0.667	0.667	91	87	45 - 105	4	32	
4-Chloro-3-methylphenol	**1.23**	**1.20**	1.33	1.33	92	90	55 - 105	2	21	
Acenaphthene	**0.583**	**0.566**	0.667	0.667	87	85	48 - 105	3	21	
4-Nitrophenol	**1.10**	**1.09**	1.33	1.33	83	82	53 - 105	1	20	
2,4-Dinitrotoluene	**0.643**	**0.634**	0.667	0.667	96	95	47 - 105	1	19	
Pentachlorophenol	**1.17**	**1.04**	1.33	1.33	88	78	35 - 125	12	26	
Pyrene	**0.599**	**0.585**	0.667	0.667	90	88	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					*87*	*85*	*19 - 103*			
Phenol-d6					*87*	*88*	*30 - 103*			
Nitrobenzene-d5					*85*	*82*	*27 - 105*			
2-Fluorobiphenyl					*90*	*88*	*36 - 102*			
2,4,6-Tribromophenol					*100*	*93*	*33 - 110*			
Terphenyl-d14					*87*	*86*	*38 - 108*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
n-Nitrosodimethylamine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**98**	6.7	EPA 8270D	12-4-18	12-6-18	
4-Chloroaniline	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**27**	1.3	EPA 8270D	12-4-18	12-4-18	
1-Methylnaphthalene	**16**	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
2,4-Dinitrophenol	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Fluorene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.13	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	6.7	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	1.3	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.013	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*2.3*	*12 - 80*				Q
Phenol-d6	*2.1*	*10 - 82*				Q
Nitrobenzene-d5	*84*	*30 - 103*				
2-Fluorobiphenyl	*81*	*33 - 103*				
2,4,6-Tribromophenol	*17*	*20 - 121*				Q
Terphenyl-d14	*88*	*32 - 113*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Pyridine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Phenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Aniline	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Isophorone	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1204W1					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Carbazole	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Benzidine	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-4-18	12-4-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-4-18	12-4-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-4-18	12-4-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*54*	*12 - 80*				
Phenol-d6	*43*	*10 - 82*				
Nitrobenzene-d5	*84*	*30 - 103*				
2-Fluorobiphenyl	*90*	*33 - 103*				
2,4,6-Tribromophenol	*100*	*20 - 121*				
Terphenyl-d14	*108*	*32 - 113*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1204W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**16.5**	**16.0**	40.0	40.0	41	40	24 - 52	3	28	
2-Chlorophenol	**29.5**	**28.1**	40.0	40.0	74	70	44 - 91	5	30	
1,4-Dichlorobenzene	**13.9**	**12.8**	20.0	20.0	70	64	36 - 82	8	33	
n-Nitroso-di-n-propylamine	**14.8**	**14.4**	20.0	20.0	74	72	43 - 93	3	29	
1,2,4-Trichlorobenzene	**14.6**	**14.1**	20.0	20.0	73	71	40 - 86	3	28	
4-Chloro-3-methylphenol	**34.4**	**35.6**	40.0	40.0	86	89	49 - 99	3	25	
Acenaphthene	**15.9**	**16.1**	20.0	20.0	80	81	47 - 90	1	25	
4-Nitrophenol	**17.9**	**17.1**	40.0	40.0	45	43	23 - 61	5	30	
2,4-Dinitrotoluene	**17.5**	**17.6**	20.0	20.0	88	88	42 - 97	1	26	
Pentachlorophenol	**36.2**	**36.6**	40.0	40.0	91	92	39 - 115	1	29	
Pyrene	**18.8**	**18.8**	20.0	20.0	94	94	51 - 100	0	22	
Surrogate:										
2-Fluorophenol					*51*	*47*	*12 - 80*			
Phenol-d6					*39*	*37*	*10 - 82*			
Nitrobenzene-d5					*78*	*76*	*30 - 103*			
2-Fluorobiphenyl					*79*	*79*	*33 - 103*			
2,4,6-Tribromophenol					*85*	*84*	*20 - 121*			
Terphenyl-d14					*93*	*92*	*32 - 113*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
Aroclor 1016	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.059	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*77*	*39-130*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*39-130*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.368**	**0.386**	0.500	0.500	N/A	**74**	**77**	56-124	5	18	
Surrogate:											
DCB						*88*	*93*	*39-130*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Aroclor 1016	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	**ND**	0.063	EPA 8082A	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*69*	*44-144*				

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-4-18	12-4-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*112*	*44-144*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1204W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.525**	**0.535**	0.500	0.500	N/A	**105**	**107**	71-131	2	12	
Surrogate:											
DCB						*124*	*123*	*44-144*			

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-10**					
Laboratory ID:	12-015-02					
Arsenic	**ND**	13	EPA 6010D	12-4-18	12-4-18	
Barium	**110**	3.4	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.67	EPA 6010D	12-4-18	12-4-18	
Chromium	**66**	0.67	EPA 6010D	12-4-18	12-4-18	
Lead	**ND**	6.7	EPA 6010D	12-4-18	12-4-18	
Mercury	**ND**	0.34	EPA 7471B	12-5-18	12-5-18	
Selenium	**ND**	13	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.3	EPA 6010D	12-4-18	12-4-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204SM1					
Arsenic	**ND**	10	EPA 6010D	12-4-18	12-4-18	
Barium	**ND**	2.5	EPA 6010D	12-4-18	12-4-18	
Cadmium	**ND**	0.50	EPA 6010D	12-4-18	12-4-18	
Chromium	**ND**	0.50	EPA 6010D	12-4-18	12-4-18	
Lead	**ND**	5.0	EPA 6010D	12-4-18	12-4-18	
Selenium	**ND**	10	EPA 6010D	12-4-18	12-4-18	
Silver	**ND**	1.0	EPA 6010D	12-4-18	12-4-18	
Laboratory ID:	MB1205S1					
Mercury	**ND**	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-257-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**23.9**	**24.0**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**15.2**	**15.2**	NA	NA		NA		NA	0	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	11-258-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-257-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**93.9**	**93.3**	100	100	ND	**94**	**93**	75-125	1	20	
Barium	**133**	**124**	100	100	23.9	**109**	**101**	75-125	6	20	
Cadmium	**46.4**	**46.1**	50.0	50.0	ND	**93**	**92**	75-125	1	20	
Chromium	**113**	**110**	100	100	15.2	**98**	**95**	75-125	3	20	
Lead	**236**	**237**	250	250	ND	**94**	**95**	75-125	0	20	
Selenium	**95.7**	**96.2**	100	100	ND	**96**	**96**	75-125	1	20	
Silver	**22.2**	**22.4**	25.0	25.0	ND	**89**	**90**	75-125	1	20	
Laboratory ID:	11-258-01										
Mercury	**0.542**	**0.549**	0.500	0.500	0.0178	**105**	**106**	80-120	1	20	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Arsenic	**180**	33	EPA 200.8	12-5-18	12-5-18	
Barium	**4100**	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	**7.9**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**2500**	110	EPA 200.8	12-5-18	12-5-18	
Lead	**170**	11	EPA 200.8	12-5-18	12-5-18	
Mercury	**2.2**	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	**59**	11	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	**ND**	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Lead	**ND**	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	**ND**	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Laboratory ID:	MB1205W1					
Mercury	**ND**	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-03										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**0.790**	**0.845**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	11-213-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**232**	**228**	222	222	ND	**105**	**103**	75-125	2	20	
Barium	**233**	**233**	222	222	ND	**105**	**105**	75-125	0	20	
Cadmium	**231**	**236**	222	222	ND	**104**	**106**	75-125	2	20	
Chromium	**218**	**213**	222	222	ND	**98**	**96**	75-125	2	20	
Lead	**211**	**209**	222	222	ND	**95**	**94**	75-125	1	20	
Selenium	**199**	**217**	222	222	ND	**90**	**98**	75-125	9	20	
Silver	**241**	**239**	222	222	ND	**109**	**108**	75-125	1	20	
Laboratory ID:	12-003-01										
Mercury	**6.11**	**5.70**	6.25	6.25	0.790	**85**	**79**	75-125	7	20	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-17-18-GW**					
Laboratory ID:	12-015-06					
Arsenic	**12**	3.0	EPA 200.8	12-4-18	12-5-18	
Barium	**66**	25	EPA 200.8	12-4-18	12-5-18	
Cadmium	**ND**	4.0	EPA 200.8	12-4-18	12-5-18	
Chromium	**ND**	10	EPA 200.8	12-4-18	12-5-18	
Lead	**ND**	1.0	EPA 200.8	12-4-18	12-5-18	
Mercury	**ND**	0.50	EPA 7470A	12-4-18	12-5-18	
Selenium	**ND**	5.0	EPA 200.8	12-4-18	12-5-18	
Silver	**ND**	10	EPA 200.8	12-4-18	12-5-18	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1204F1					
Arsenic	**ND**	3.0	EPA 200.8	12-4-18	12-4-18	
Barium	**ND**	25	EPA 200.8	12-4-18	12-4-18	
Cadmium	**ND**	4.0	EPA 200.8	12-4-18	12-4-18	
Chromium	**ND**	10	EPA 200.8	12-4-18	12-4-18	
Lead	**ND**	1.0	EPA 200.8	12-4-18	12-4-18	
Selenium	**ND**	5.0	EPA 200.8	12-4-18	12-4-18	
Silver	**ND**	10	EPA 200.8	12-4-18	12-4-18	
Laboratory ID:	MB1204F1					
Mercury	**ND**	0.50	EPA 7470A	12-4-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-02										
	ORIG	DUP									
Arsenic	**3.16**	**3.80**	NA	NA		NA		NA	18	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**79.6**	**83.6**	80.0	80.0	3.16	**96**	**101**	75-125	5	20	
Barium	**87.8**	**83.8**	80.0	80.0	ND	**110**	**105**	75-125	5	20	
Cadmium	**79.4**	**79.4**	80.0	80.0	ND	**99**	**99**	75-125	0	20	
Chromium	**75.4**	**76.4**	80.0	80.0	ND	**94**	**96**	75-125	1	20	
Lead	**76.0**	**77.6**	80.0	80.0	ND	**95**	**97**	75-125	2	20	
Selenium	**79.0**	**82.2**	80.0	80.0	ND	**99**	**103**	75-125	4	20	
Silver	**87.2**	**87.2**	80.0	80.0	ND	**109**	**109**	75-125	0	20	
Laboratory ID:	12-003-01										
Mercury	**5.38**	**5.10**	12.5	12.5	ND	**43**	**41**	75-125	5	20	

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Date of Report: December 6, 2018
Samples Submitted: December 4, 2018
Laboratory Reference: 1812-015
Project: Montlake

% MOISTURE

Date Analyzed: 12-4-18

Client ID	Lab ID	% Moisture
H-17-18-10	12-015-02	15

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Hayman
Sampled by: Corin Dothy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-015

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A		Dissolved RCRA metals			% Moisture
1	H-17-18-5 12/4/18 ~~12/3/18~~		0200	S	5			X	X	X			X		X				X		HOLD						X
2	-10	12/4/18	0220		5			X	X	X			X		X				X								X
3	-15	12/4/18	0230		5			X	X	X			X		X				X		HOLD						X
4	-20	12/4/18	0250		5			X	X	X			X		X				X		HOLD						X
5	-25	12/4/18	0310		5			X	X	X			X		X				X		HOLD						X
	~~-30~~				~~5~~			~~X~~	~~X~~	~~X~~			~~X~~		~~X~~				~~X~~								~~X~~
6	H-17-18-GW	12/4/18	0330	W	12			X	X	X			X		X				X					X			
7	TRIP BLANK	12/4/18	—	W	1					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	IEM	12/4/18	0615
Received	[signature]	OSE	12.4.18	6:15A
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Hold samples shown above.
Added 12/4/18 BLO
1 day TA

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-029

Dear Glenn

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

Case Narrative

Samples were collected on December 5, 2018 and received by the laboratory on December 5, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Gasoline	**ND**	5.2	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*81*	*57-129*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*83*	*57-129*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-035-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*76*	*75*	*57-129*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Gasoline	**1300**	100	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*92*	*66-117*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Gasoline	**ND**	100	NWTPH-Gx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Fluorobenzene	*85*	*66-117*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-025-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						*86*	*85*	*66-117*			

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Diesel Range Organics	**ND**	29	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil	**59**	58	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*91*	*50-150*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*94*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-029-05									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil	**50.8**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						*91*	*69*	*50-150*		

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Diesel Range Organics	**ND**	0.54	NWTPH-Dx	12-5-18	12-5-18	U1,M1
Lube Oil Range Organics	**ND**	0.49	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*93*	*50-150*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-5-18	12-5-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
o-Terphenyl	*85*	*50-150*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB1205W1										
	ORIG	DUP									
Diesel Fuel #2	**0.974**	**0.929**	NA	NA		NA		NA	5	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						*94*	*95*	*50-150*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Acetone	0.024	0.0087	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	0.0020	0.00087	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.0017	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	12-5-18	12-5-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*73*	*68-139*
Toluene-d8	*98*	*79-128*
4-Bromofluorobenzene	*93*	*71-132*

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	0.010	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
Dibromofluoromethane	*107*	*68-139*				
Toluene-d8	*100*	*79-128*				
4-Bromofluorobenzene	*98*	*71-132*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0438**	**0.0412**	0.0500	0.0500	88	82	53-141	6	17	
Benzene	**0.0510**	**0.0479**	0.0500	0.0500	102	96	70-130	6	15	
Trichloroethene	**0.0475**	**0.0446**	0.0500	0.0500	95	89	74-122	6	16	
Toluene	**0.0497**	**0.0461**	0.0500	0.0500	99	92	76-130	8	15	
Chlorobenzene	**0.0463**	**0.0433**	0.0500	0.0500	93	87	75-120	7	14	
Surrogate:										
Dibromofluoromethane					*107*	*108*	*68-139*			
Toluene-d8					*99*	*98*	*79-128*			
4-Bromofluorobenzene					*99*	*99*	*71-132*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	25	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	25	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Benzene	32	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	5.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-5-18	12-5-18	
Toluene	10	5.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	10	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	84	1.0	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	240	2.0	EPA 8260C	12-5-18	12-5-18	
o-Xylene	81	1.0	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	4.0	1.0	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	9.9	1.0	EPA 8260C	12-5-18	12-5-18	Y
2-Chlorotoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	16	1.0	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	63	1.0	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	1.2	1.0	EPA 8260C	12-5-18	12-5-18	Y
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	12	6.5	EPA 8260C	12-5-18	12-5-18	Y
1,2,3-Trichlorobenzene	ND	1.4	EPA 8260C	12-5-18	12-5-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*99*	*75-127*
Toluene-d8	*96*	*80-127*
4-Bromofluorobenzene	*94*	*78-125*

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-029-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-029-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	1.3	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-5-18	12-5-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*99*	*75-127*
Toluene-d8	*100*	*80-127*
4-Bromofluorobenzene	*95*	*78-125*

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloromethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Acetone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Iodomethane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-5-18	12-5-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Butanone	ND	5.0	EPA 8260C	12-5-18	12-5-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chloroform	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Benzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Trichloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Dibromomethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Toluene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Hexanone	ND	2.0	EPA 8260C	12-5-18	12-5-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-5-18	12-5-18	
o-Xylene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Styrene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromoform	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Bromobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-5-18	12-5-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-5-18	12-5-18	
Naphthalene	ND	1.3	EPA 8260C	12-5-18	12-5-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-5-18	12-5-18	

Surrogate:	*Percent Recovery*	*Control Limits*
Dibromofluoromethane	*100*	*75-127*
Toluene-d8	*99*	*80-127*
4-Bromofluorobenzene	*95*	*78-125*

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**11.7**	**11.3**	10.0	10.0	117	113	62-129	3	15	
Benzene	**11.1**	**11.1**	10.0	10.0	111	111	77-127	0	15	
Trichloroethene	**10.9**	**10.5**	10.0	10.0	109	105	70-120	4	15	
Toluene	**10.8**	**10.6**	10.0	10.0	108	106	82-123	2	15	
Chlorobenzene	**9.96**	**9.89**	10.0	10.0	100	99	79-120	1	15	
Surrogate:										
Dibromofluoromethane					*98*	*101*	*75-127*			
Toluene-d8					*97*	*98*	*80-127*			
4-Bromofluorobenzene					*93*	*97*	*78-125*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
n-Nitrosodimethylamine	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	0.39	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**ND**	0.019	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
2,4-Dinitrophenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	0.039	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	0.39	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	0.19	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.0077	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*69*	*19 - 103*				
Phenol-d6	*71*	*30 - 103*				
Nitrobenzene-d5	*37*	*27 - 105*				
2-Fluorobiphenyl	*73*	*36 - 102*				
2,4,6-Tribromophenol	*74*	*33 - 110*				
Terphenyl-d14	*68*	*38 - 108*				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	0.33	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**ND**	0.017	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205S2					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	0.033	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	0.33	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*85*	*19 - 103*				
Phenol-d6	*89*	*30 - 103*				
Nitrobenzene-d5	*87*	*27 - 105*				
2-Fluorobiphenyl	*94*	*36 - 102*				
2,4,6-Tribromophenol	*96*	*33 - 110*				
Terphenyl-d14	*88*	*38 - 108*				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205S2									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.22**	**1.18**	1.33	1.33	92	89	45 - 105	3	29	
2-Chlorophenol	**1.19**	**1.18**	1.33	1.33	89	89	46 - 105	1	33	
1,4-Dichlorobenzene	**0.585**	**0.570**	0.667	0.667	88	85	42 - 105	3	37	
n-Nitroso-di-n-propylamine	**0.560**	**0.551**	0.667	0.667	84	83	45 - 105	2	26	
1,2,4-Trichlorobenzene	**0.652**	**0.634**	0.667	0.667	98	95	45 - 105	3	32	
4-Chloro-3-methylphenol	**1.30**	**1.22**	1.33	1.33	98	92	55 - 105	6	21	
Acenaphthene	**0.600**	**0.573**	0.667	0.667	90	86	48 - 105	5	21	
4-Nitrophenol	**1.11**	**1.07**	1.33	1.33	83	80	53 - 105	4	20	
2,4-Dinitrotoluene	**0.695**	**0.652**	0.667	0.667	104	98	47 - 105	6	19	
Pentachlorophenol	**1.31**	**1.39**	1.33	1.33	98	105	35 - 125	6	26	
Pyrene	**0.627**	**0.587**	0.667	0.667	94	88	55 - 110	7	17	
Surrogate:										
2-Fluorophenol					*90*	*85*	*19 - 103*			
Phenol-d6					*92*	*88*	*30 - 103*			
Nitrobenzene-d5					*89*	*87*	*27 - 105*			
2-Fluorobiphenyl					*94*	*89*	*36 - 102*			
2,4,6-Tribromophenol					*103*	*100*	*33 - 110*			
Terphenyl-d14					*93*	*86*	*38 - 108*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
n-Nitrosodimethylamine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**2.7**	1.2	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**33**	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chloroaniline	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**6.7**	1.2	EPA 8270D	12-5-18	12-5-18	
1-Methylnaphthalene	**4.0**	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
2,4-Dinitrophenol	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.12	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	6.2	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	1.2	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.012	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*47*	*12 - 80*				
Phenol-d6	*40*	*10 - 82*				
Nitrobenzene-d5	*69*	*30 - 103*				
2-Fluorobiphenyl	*78*	*33 - 103*				
2,4,6-Tribromophenol	*86*	*20 - 121*				
Terphenyl-d14	*81*	*32 - 113*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Pyridine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Phenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Aniline	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Isophorone	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1205W1					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Carbazole	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Benzidine	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-5-18	12-5-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-5-18	12-5-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-5-18	12-5-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
2-Fluorophenol	*47*	*12 - 80*				
Phenol-d6	*38*	*10 - 82*				
Nitrobenzene-d5	*69*	*30 - 103*				
2-Fluorobiphenyl	*78*	*33 - 103*				
2,4,6-Tribromophenol	*93*	*20 - 121*				
Terphenyl-d14	*86*	*32 - 113*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1205W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**16.2**	**16.2**	40.0	40.0	41	41	24 - 52	0	28	
2-Chlorophenol	**28.7**	**28.2**	40.0	40.0	72	71	44 - 91	2	30	
1,4-Dichlorobenzene	**13.2**	**12.8**	20.0	20.0	66	64	36 - 82	3	33	
n-Nitroso-di-n-propylamine	**14.1**	**14.4**	20.0	20.0	71	72	43 - 93	2	29	
1,2,4-Trichlorobenzene	**15.3**	**15.0**	20.0	20.0	77	75	40 - 86	2	28	
4-Chloro-3-methylphenol	**34.1**	**34.9**	40.0	40.0	85	87	49 - 99	2	25	
Acenaphthene	**15.9**	**15.9**	20.0	20.0	80	80	47 - 90	0	25	
4-Nitrophenol	**14.7**	**16.7**	40.0	40.0	37	42	23 - 61	13	30	
2,4-Dinitrotoluene	**18.0**	**18.6**	20.0	20.0	90	93	42 - 97	3	26	
Pentachlorophenol	**34.4**	**40.1**	40.0	40.0	86	100	39 - 115	15	29	
Pyrene	**17.1**	**17.3**	20.0	20.0	86	87	51 - 100	1	22	
Surrogate:										
2-Fluorophenol					*49*	*48*	*12 - 80*			
Phenol-d6					*39*	*39*	*10 - 82*			
Nitrobenzene-d5					*73*	*74*	*30 - 103*			
2-Fluorobiphenyl					*81*	*81*	*33 - 103*			
2,4,6-Tribromophenol					*93*	*95*	*20 - 121*			
Terphenyl-d14					*86*	*88*	*32 - 113*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Aroclor 1016	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.058	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*70*	*39-130*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-5-18	12-5-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*86*	*39-130*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1205S1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.368**	**0.386**	0.500	0.500	N/A	**74**	**77**	56-124	5	18	
Surrogate:											
DCB						*88*	*93*	*39-130*			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Aroclor 1016	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.048	EPA 8082A	12-7-18	12-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*108*	*44-144*				

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	*Percent Recovery*	*Control Limits*				
DCB	*106*	*44-144*				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1207W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.495**	**0.492**	0.500	0.500	N/A	**99**	**98**	71-131	1	12	
Surrogate:											
DCB						*111*	*116*	*44-144*			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Arsenic	**ND**	12	EPA 6010D	12-5-18	12-5-18	
Barium	**56**	2.9	EPA 6010D	12-5-18	12-5-18	
Cadmium	**ND**	0.58	EPA 6010D	12-5-18	12-5-18	
Chromium	**120**	0.58	EPA 6010D	12-5-18	12-5-18	
Lead	**ND**	5.8	EPA 6010D	12-5-18	12-5-18	
Mercury	**ND**	0.29	EPA 7471B	12-5-18	12-5-18	
Selenium	**ND**	12	EPA 6010D	12-5-18	12-5-18	
Silver	**ND**	1.2	EPA 6010D	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205SM1					
Arsenic	**ND**	10	EPA 6010D	12-5-18	12-5-18	
Barium	**ND**	2.5	EPA 6010D	12-5-18	12-5-18	
Cadmium	**ND**	0.50	EPA 6010D	12-5-18	12-5-18	
Chromium	**ND**	0.50	EPA 6010D	12-5-18	12-5-18	
Lead	**ND**	5.0	EPA 6010D	12-5-18	12-5-18	
Selenium	**ND**	10	EPA 6010D	12-5-18	12-5-18	
Silver	**ND**	1.0	EPA 6010D	12-5-18	12-5-18	
Laboratory ID:	MB1205S1					
Mercury	**ND**	0.25	EPA 7471B	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-022-04										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**172**	**170**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**68.7**	**69.1**	NA	NA		NA		NA	1	20	
Lead	**6.85**	**5.90**	NA	NA		NA		NA	15	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	11-258-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-022-04										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**76.3**	**76.8**	100	100	ND	**76**	**77**	75-125	1	20	
Barium	**257**	**260**	100	100	172	**86**	**88**	75-125	1	20	
Cadmium	**44.4**	**43.5**	50.0	50.0	ND	**89**	**87**	75-125	2	20	
Chromium	**158**	**155**	100	100	68.7	**89**	**86**	75-125	2	20	
Lead	**224**	**222**	250	250	6.85	**87**	**86**	75-125	1	20	
Selenium	**85.2**	**79.7**	100	100	ND	**85**	**80**	75-125	7	20	
Silver	**19.1**	**18.8**	25.0	25.0	ND	**76**	**75**	75-125	2	20	
Laboratory ID:	11-258-01										
Mercury	**0.542**	**0.549**	0.500	0.500	0.0178	**105**	**106**	80-120	1	20	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Arsenic	**170**	33	EPA 200.8	12-5-18	12-5-18	
Barium	**3600**	280	EPA 200.8	12-5-18	12-5-18	
Cadmium	**5.9**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**2100**	110	EPA 200.8	12-5-18	12-5-18	
Lead	**150**	11	EPA 200.8	12-5-18	12-5-18	
Mercury	**1.8**	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	**16**	11	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-5-18	12-5-18	
Barium	**ND**	28	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.4	EPA 200.8	12-5-18	12-5-18	
Chromium	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Lead	**ND**	1.1	EPA 200.8	12-5-18	12-5-18	
Selenium	**ND**	5.6	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	11	EPA 200.8	12-5-18	12-5-18	
Laboratory ID:	MB1205W1					
Mercury	**ND**	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-03										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**0.790**	**0.845**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	11-213-03										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**232**	**228**	222	222	ND	**105**	**103**	75-125	2	20	
Barium	**233**	**233**	222	222	ND	**105**	**105**	75-125	0	20	
Cadmium	**231**	**236**	222	222	ND	**104**	**106**	75-125	2	20	
Chromium	**218**	**213**	222	222	ND	**98**	**96**	75-125	2	20	
Lead	**211**	**209**	222	222	ND	**95**	**94**	75-125	1	20	
Selenium	**199**	**217**	222	222	ND	**90**	**98**	75-125	9	20	
Silver	**241**	**239**	222	222	ND	**109**	**108**	75-125	1	20	
Laboratory ID:	12-003-01										
Mercury	**6.11**	**5.70**	6.25	6.25	0.790	**85**	**79**	75-125	7	20	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-GW**					
Laboratory ID:	12-029-06					
Arsenic	**ND**	3.0	EPA 200.8	12-5-18	12-5-18	
Barium	**ND**	25	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.0	EPA 200.8	12-5-18	12-5-18	
Chromium	**ND**	10	EPA 200.8	12-5-18	12-5-18	
Lead	**ND**	1.0	EPA 200.8	12-5-18	12-5-18	
Mercury	**ND**	0.50	EPA 7470A	12-5-18	12-5-18	
Selenium	**ND**	5.0	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	10	EPA 200.8	12-5-18	12-5-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1205F1					
Arsenic	**ND**	3.0	EPA 200.8	12-5-18	12-5-18	
Barium	**ND**	25	EPA 200.8	12-5-18	12-5-18	
Cadmium	**ND**	4.0	EPA 200.8	12-5-18	12-5-18	
Chromium	**ND**	10	EPA 200.8	12-5-18	12-5-18	
Lead	**ND**	1.0	EPA 200.8	12-5-18	12-5-18	
Selenium	**ND**	5.0	EPA 200.8	12-5-18	12-5-18	
Silver	**ND**	10	EPA 200.8	12-5-18	12-5-18	
Laboratory ID:	MB1205F1					
Mercury	**ND**	0.50	EPA 7470A	12-5-18	12-5-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-029-06										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-003-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-029-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**203**	**193**	200	200	ND	**101**	**97**	75-125	5	20	
Barium	**213**	**216**	200	200	ND	**107**	**108**	75-125	1	20	
Cadmium	**197**	**198**	200	200	ND	**99**	**99**	75-125	0	20	
Chromium	**175**	**174**	200	200	ND	**88**	**87**	75-125	1	20	
Lead	**177**	**177**	200	200	ND	**88**	**89**	75-125	0	20	
Selenium	**185**	**185**	200	200	ND	**92**	**93**	75-125	0	20	
Silver	**203**	**198**	200	200	ND	**102**	**99**	75-125	2	20	
Laboratory ID:	12-003-01										
Mercury	**5.38**	**5.10**	6.25	6.25	ND	**86**	**82**	75-125	5	20	

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Date of Report: December 7, 2018
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029
Project: Montlake

% MOISTURE

Date Analyzed: 12-5-18

Client ID	Lab ID	% Moisture
H-18-18-25	12-029-05	14

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Hayman
Sampled by: Colin Doty

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-029

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals + Dissolved	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				% Moisture
1	H-18-18-5	12/5/18	0025	S	5			X	X	X			X		X				X		HOLD					X
2	-10		0045		5			X	X	X			X		X				X		HOLD					X
3	-15		0100		5			X	X	X			X		X				X		HOLD					X
4	-20		0120		5			X	X	X			X		X				X		HOLD					X
5	-25		0140		5			X	X	X			X		X				X							X
~~[illegible]~~	~~-30~~				~~5~~			~~X~~	~~X~~	~~X~~			~~X~~		~~X~~				~~X~~							~~X~~
6	H-18-18-GW	12/5/18	0145	W	12			X	X	X			X		X				X							
7	Trip Blank	—	—	W	1					X																

	Signature	Company	Date	Time
Relinquished	[signature]	IEM		
Received	[signature]	IEM	12/5/18	0630
Relinquished				0700
Received	[signature]	OSE	12.5.18	7:00 A
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total & ~~field~~ lab filter for metals.
Hold samples as noted above.

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

January 11, 2019

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-029B

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 5, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: January 11, 2019
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029B
Project: Montlake

Case Narrative

Samples were collected on December 5, 2018 and received by the laboratory on December 5, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 11, 2019
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029B
Project: Montlake

TCLP CHROMIUM
EPA 1311/6010D

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-18-18-25**					
Laboratory ID:	12-029-05					
Chromium	**0.087**	0.020	EPA 6010D	1-9-19	1-9-19	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: January 11, 2019
Samples Submitted: December 5, 2018
Laboratory Reference: 1812-029B
Project: Montlake

TCLP CHROMIUM
EPA 1311/6010D
QUALITY CONTROL

Matrix: TCLP Extract
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0109TM2					
Chromium	**ND**	0.020	EPA 6010D	1-9-19	1-9-19	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	01-004-01										
	ORIG	DUP									
Chromium	**0.0294**	**0.0274**	NA	NA		NA		NA	7	20	
MATRIX SPIKES											
Laboratory ID:	01-004-01										
	MS	MSD	MS	MSD		MS	MSD				
Chromium	**3.99**	**3.99**	4.00	4.00	0.0294	**99**	**99**	75-125	0	20	

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

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B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

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H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Hayman
Sampled by: Colin Doty

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-029

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals + Dissolved	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A			TCLP CHROMIUM		% Moisture
1	H-18-18-5	12/5/18	0025	S	5			X	X	X			X		X				X		HOLD						X
2	-10		0045		5			X	X	X			X		X				X		HOLD						X
3	-15		0100		5			X	X	X			X		X				X		HOLD						X
4	-20		0120		5			X	X	X			X		X				X		HOLD						X
5	-25		0140		5			X	X	X			X		X				X						X		X
	~~-30~~				~~5~~			~~X~~	~~X~~	~~X~~			~~X~~		~~X~~				~~X~~								~~X~~
6	H-18-18-GW	12/5/18	0145	W	12			X	X	X			X		X				X								
7	Trip Blank	—	—	W	1					X																	

	Signature	Company	Date	Time
Relinquished	[signature]	IEM		
Received	[signature]	IEM	12/5/18	0630
Relinquished				0700
Received	[signature]	OSE	12.5.18	7:00 A
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total & ~~field~~ lab filter for metals.
Hold samples as noted above.
(X) Added 12/4/19. DB (STA)

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-050

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

Case Narrative

Samples were collected on December 6, 2018 and received by the laboratory on December 6, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Semivolatiles EPA 8270D/SIM Analysis

Sample H-20-18-GW had three surrogate recoveries out of control limits. Site history suggests that matrix interference was the cause. Due to insufficient sample available, re-extraction was not possible for confirmation.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
Gasoline	**ND**	6.5	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***98***	***57-129***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***85***	***57-129***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-056-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***96***	***93***	***57-129***			

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
Gasoline	**590**	100	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***105***	***66-117***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Gasoline	**ND**	100	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***82***	***66-117***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-058-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***80***	***78***	***66-117***			

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Date of Report: December 7, 2018
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Laboratory Reference: 1812-050
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
Diesel Range Organics	**ND**	30	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	**ND**	60	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***105***	***50-150***				

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Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***100***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-028-26									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						***84***	***85***	***50-150***		

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
Diesel Range Organics	**0.69**	0.25	NWTPH-Dx	12-6-18	12-7-18	M
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***86***	***50-150***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***77***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-052-01									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	U1
Lube Oil	**16.8**	**9.23**	NA	NA		NA	NA	58	NA	
Surrogate:										
o-Terphenyl						***94 90***	***50-150***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	0.080	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	0.023	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	0.93	0.068	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	0.028	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	0.034	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	0.021	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	0.0051	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.012	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	0.0029	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	0.0035	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	0.0035	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	0.0059	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***109***	***68-139***
Toluene-d8	***99***	***79-128***
4-Bromofluorobenzene	***83***	***71-132***

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***107***	***68-139***
Toluene-d8	***100***	***79-128***
4-Bromofluorobenzene	***98***	***71-132***

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0454**	**0.0460**	0.0500	0.0500	91	92	53-141	1	17	
Benzene	**0.0507**	**0.0509**	0.0500	0.0500	101	102	70-130	0	15	
Trichloroethene	**0.0456**	**0.0466**	0.0500	0.0500	91	93	74-122	2	16	
Toluene	**0.0478**	**0.0480**	0.0500	0.0500	96	96	76-130	0	15	
Chlorobenzene	**0.0441**	**0.0452**	0.0500	0.0500	88	90	75-120	2	14	
Surrogate:										
Dibromofluoromethane					***105***	***108***	***68-139***			
Toluene-d8					***101***	***101***	***79-128***			
4-Bromofluorobenzene					***97***	***100***	***71-132***			

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	160	100	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	10	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	450	4.0	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	19	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	7.5	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	0.23	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	6.2	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	13	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	3.6	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	15	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	30	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	1.8	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	4.5	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	2.0	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	26	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	2.1	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***87***	***75-127***
Toluene-d8	***94***	***80-127***
4-Bromofluorobenzene	***92***	***78-125***

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-050-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-050-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***90***	***75-127***
Toluene-d8	***100***	***80-127***
4-Bromofluorobenzene	***94***	***78-125***

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***94***	***75-127***
Toluene-d8	***99***	***80-127***
4-Bromofluorobenzene	***96***	***78-125***

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.7**	**10.2**	10.0	10.0	107	102	62-129	5	15	
Benzene	**10.6**	**9.88**	10.0	10.0	106	99	77-127	7	15	
Trichloroethene	**10.7**	**10.2**	10.0	10.0	107	102	70-120	5	15	
Toluene	**10.7**	**10.2**	10.0	10.0	107	102	82-123	5	15	
Chlorobenzene	**9.82**	**9.49**	10.0	10.0	98	95	79-120	3	15	
Surrogate:										
Dibromofluoromethane					***94***	***93***	***75-127***			
Toluene-d8					***99***	***99***	***80-127***			
4-Bromofluorobenzene					***96***	***95***	***78-125***			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
n-Nitrosodimethylamine	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	0.40	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
2,4-Dinitrophenol	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	0.040	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	0.40	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0081	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***70***	***19 - 103***				
Phenol-d6	***75***	***30 - 103***				
Nitrobenzene-d5	***73***	***27 - 105***				
2-Fluorobiphenyl	***76***	***36 - 102***				
2,4,6-Tribromophenol	***85***	***33 - 110***				
Terphenyl-d14	***86***	***38 - 108***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	0.33	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	0.33	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***87***	***19 - 103***				
Phenol-d6	***91***	***30 - 103***				
Nitrobenzene-d5	***90***	***27 - 105***				
2-Fluorobiphenyl	***89***	***36 - 102***				
2,4,6-Tribromophenol	***93***	***33 - 110***				
Terphenyl-d14	***98***	***38 - 108***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.12**	**1.08**	1.33	1.33	84	81	45 - 105	4	29	
2-Chlorophenol	**1.08**	**1.04**	1.33	1.33	81	78	46 - 105	4	33	
1,4-Dichlorobenzene	**0.492**	**0.494**	0.667	0.667	74	74	42 - 105	0	37	
n-Nitroso-di-n-propylamine	**0.499**	**0.486**	0.667	0.667	75	73	45 - 105	3	26	
1,2,4-Trichlorobenzene	**0.528**	**0.525**	0.667	0.667	79	79	45 - 105	1	32	
4-Chloro-3-methylphenol	**1.15**	**1.11**	1.33	1.33	86	83	55 - 105	4	21	
Acenaphthene	**0.531**	**0.510**	0.667	0.667	80	76	48 - 105	4	21	
4-Nitrophenol	**1.13**	**1.08**	1.33	1.33	85	81	53 - 105	5	20	
2,4-Dinitrotoluene	**0.560**	**0.536**	0.667	0.667	84	80	47 - 105	4	19	
Pentachlorophenol	**1.24**	**1.22**	1.33	1.33	93	92	35 - 125	2	26	
Pyrene	**0.587**	**0.575**	0.667	0.667	88	86	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					***79***	***75***	***19 - 103***			
Phenol-d6					***83***	***79***	***30 - 103***			
Nitrobenzene-d5					***84***	***79***	***27 - 105***			
2-Fluorobiphenyl					***83***	***78***	***36 - 102***			
2,4,6-Tribromophenol					***84***	***81***	***33 - 110***			
Terphenyl-d14					***88***	***85***	***38 - 108***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
n-Nitrosodimethylamine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	14	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**1.1**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**2.5**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	**1.8**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
2,4-Dinitrophenol	**ND**	14	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	**ND**	14	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	**ND**	14	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	14	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	14	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	**ND**	14	EPA 8270D	12-6-18	12-6-18	
Pyrene	**0.28**	0.27	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	14	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	**ND**	14	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	2.7	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.071	EPA 8270D/SIM	12-6-18	12-6-18	U1
Benzo(j,k)fluoranthene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	**ND**	0.027	EPA 8270D/SIM	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***2.5***	***12 - 80***				Q
Phenol-d6	***2.7***	***10 - 82***				Q
Nitrobenzene-d5	***71***	***30 - 103***				
2-Fluorobiphenyl	***70***	***33 - 103***				
2,4,6-Tribromophenol	***15***	***20 - 121***				Q
Terphenyl-d14	***75***	***32 - 113***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***31***	***12 - 80***				
Phenol-d6	***25***	***10 - 82***				
Nitrobenzene-d5	***57***	***30 - 103***				
2-Fluorobiphenyl	***57***	***33 - 103***				
2,4,6-Tribromophenol	***59***	***20 - 121***				
Terphenyl-d14	***73***	***32 - 113***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-044-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	**11.7**	**11.1**	39.1	37.4	ND	30	30	20 - 102	5	34	
2-Chlorophenol	**22.4**	**22.8**	39.1	37.4	ND	57	61	35 - 89	2	37	
1,4-Dichlorobenzene	**11.4**	**12.0**	19.6	18.7	ND	58	64	25 - 85	5	40	
n-Nitroso-di-n-propylamine	**12.8**	**13.0**	19.6	18.7	ND	65	70	23 - 113	2	36	
1,2,4-Trichlorobenzene	**13.6**	**14.0**	19.6	18.7	ND	69	75	31 - 88	3	40	
4-Chloro-3-methylphenol	**26.8**	**24.9**	39.1	37.4	ND	69	67	37 - 100	7	37	
Acenaphthene	**14.6**	**14.7**	19.6	18.7	ND	74	79	39 - 92	1	32	
4-Nitrophenol	**11.2**	**11.8**	39.1	37.4	ND	29	32	20 - 125	5	40	
2,4-Dinitrotoluene	**14.7**	**13.9**	19.6	18.7	ND	75	74	31 - 100	6	32	
Pentachlorophenol	**19.2**	**20.3**	39.1	37.4	ND	49	54	20 - 136	6	40	
Pyrene	**16.0**	**15.4**	19.6	18.7	ND	82	82	44 - 95	4	33	
Surrogate:											
2-Fluorophenol						***34***	***36***	***12 - 80***			
Phenol-d6						***28***	***29***	***10 - 82***			
Nitrobenzene-d5						***67***	***75***	***30 - 103***			
2-Fluorobiphenyl						***76***	***85***	***33 - 103***			
2,4,6-Tribromophenol						***79***	***82***	***20 - 121***			
Terphenyl-d14						***81***	***85***	***32 - 113***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
Aroclor 1016	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.060	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***84***	***39-130***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***89***	***39-130***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.312**	**0.326**	0.500	0.500	ND	**62**	**65**	45-118	4	15	
Surrogate:											
DCB						***71***	***78***	***39-130***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-10**					
Laboratory ID:	12-050-02					
Arsenic	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Barium	**130**	3.0	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.60	EPA 6010D	12-6-18	12-6-18	
Chromium	**58**	0.60	EPA 6010D	12-6-18	12-6-18	
Lead	**ND**	6.0	EPA 6010D	12-6-18	12-6-18	
Mercury	**ND**	0.30	EPA 7471B	12-7-18	12-7-18	
Selenium	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.2	EPA 6010D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206SM2					
Arsenic	**ND**	10	EPA 6010D	12-6-18	12-6-18	
Barium	**ND**	2.5	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.50	EPA 6010D	12-6-18	12-6-18	
Chromium	**ND**	0.50	EPA 6010D	12-6-18	12-6-18	
Lead	**ND**	5.0	EPA 6010D	12-6-18	12-6-18	
Selenium	**ND**	10	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.0	EPA 6010D	12-6-18	12-6-18	
Laboratory ID:	MB1207S1					
Mercury	**ND**	0.25	EPA 7471B	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-050-02										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**110**	**95.5**	NA	NA		NA		NA	14	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**47.7**	**43.3**	NA	NA		NA		NA	10	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-050-02										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**90.1**	**87.9**	100	100	ND	**90**	**88**	75-125	3	20	
Barium	**210**	**223**	100	100	110	**100**	**113**	75-125	6	20	
Cadmium	**49.2**	**45.2**	50.0	50.0	ND	**98**	**90**	75-125	8	20	
Chromium	**138**	**148**	100	100	47.7	**91**	**101**	75-125	7	20	
Lead	**252**	**228**	250	250	ND	**101**	**91**	75-125	10	20	
Selenium	**85.7**	**87.9**	100	100	ND	**86**	**88**	75-125	2	20	
Silver	**20.6**	**20.8**	25.0	25.0	ND	**82**	**83**	75-125	1	20	
Laboratory ID:	12-050-02										
Mercury	**0.522**	**0.495**	0.500	0.500	0.0233	**100**	**94**	80-120	5	20	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
Arsenic	**580**	33	EPA 200.8	12-7-18	12-7-18	
Barium	**11000**	560	EPA 200.8	12-7-18	12-7-18	
Cadmium	**8.2**	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	**4500**	1100	EPA 200.8	12-7-18	12-7-18	
Lead	**450**	22	EPA 200.8	12-7-18	12-7-18	
Mercury	**0.60**	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	**46**	11	EPA 200.8	12-7-18	12-7-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-7-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	**ND**	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	**ND**	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Lead	**ND**	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	**ND**	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Laboratory ID:	MB1207W1					
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-06										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-06										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**219**	**229**	222	222	ND	**99**	**103**	75-125	4	20	
Barium	**232**	**232**	222	222	ND	**104**	**105**	75-125	0	20	
Cadmium	**213**	**224**	222	222	ND	**96**	**101**	75-125	5	20	
Chromium	**205**	**211**	222	222	ND	**92**	**95**	75-125	3	20	
Lead	**208**	**211**	222	222	ND	**94**	**95**	75-125	2	20	
Selenium	**215**	**228**	222	222	ND	**97**	**103**	75-125	6	20	
Silver	**226**	**225**	222	222	ND	**102**	**101**	75-125	0	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.4**	12.5	12.5	ND	**92**	**91**	75-125	1	20	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-20-18-GW**					
Laboratory ID:	12-050-06					
Arsenic	**32**	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	**79**	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	**ND**	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Lead	**ND**	1.0	EPA 200.8	12-6-18	12-7-18	
Mercury	**ND**	0.50	EPA 7470A	12-6-18	12-7-18	
Selenium	**ND**	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	**ND**	10	EPA 200.8	12-6-18	12-7-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206F1					
Arsenic	**ND**	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	**ND**	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	**ND**	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Lead	**ND**	1.0	EPA 200.8	12-6-18	12-7-18	
Selenium	**ND**	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Laboratory ID:	MB1206F1					
Mercury	**ND**	0.50	EPA 7470A	12-6-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-050-06										
	ORIG	DUP									
Arsenic	**32.4**	**30.6**	NA	NA		NA		NA	6	20	
Barium	**78.8**	**79.4**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-050-06										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**111**	**111**	80.0	80.0	32.4	**99**	**98**	75-125	1	20	
Barium	**157**	**151**	80.0	80.0	78.8	**97**	**91**	75-125	4	20	
Cadmium	**79.0**	**74.6**	80.0	80.0	ND	**99**	**93**	75-125	6	20	
Chromium	**77.2**	**73.6**	80.0	80.0	ND	**97**	**92**	75-125	5	20	
Lead	**68.4**	**65.6**	80.0	80.0	ND	**86**	**82**	75-125	4	20	
Selenium	**83.0**	**82.2**	80.0	80.0	ND	**104**	**103**	75-125	1	20	
Silver	**75.6**	**74.0**	80.0	80.0	ND	**95**	**93**	75-125	2	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.6**	12.5	12.5	ND	**92**	**92**	75-125	0	20	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-050
Project: Montlake

% MOISTURE

Date Analyzed: 12-6-18

Client ID	Lab ID	% Moisture
H-20-18-10	12-050-02	17

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: INNOVEX
Project Number:
Project Name: Mount lake
Project Manager: Glenn Hayman
Sampled by: Colin Duffy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-050

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				% Moisture
1	H-20-18-5	12/6/18	0212	S	5			X	X	X			X		X				X		HOLD					X
2	-10	12/6/18	0220		5			X	X	X			X		X				X							X
3	-15	12/6/18	0230		5			X	X	X			X		X				X		HOLD					X
4	-20	12/6/18	0242		5			X	X	X			X		X				X		HOLD					X
5	-25	12/6/18	0305		5			X	X	X			X		X				X		HOLD					X
	-30				5			X	X	X			X		X				X							X
6	H-20-18-GW	12/6/18	0320	W	~~10~~			X	X	X			X						X							
7	Trip Blank	—	—	W	1 9					X																

	Signature	Company	Date	Time
Relinquished	[signature]	IEM		
Received	[signature]	IEM	12/6/18	0620
Relinquished				0650
Received	[signature]	OSE	12.6.18	6:50
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total/Dissolved metals - lab filter
Hold samples shown above

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 7, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-051

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 6, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

Case Narrative

Samples were collected on December 5 and 6, 2018 and received by the laboratory on December 6, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Some MTCA Method A cleanup levels are non-achievable for samples H-19-18-5 and H-19-18-15 due to the necessary dilution of the samples.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
Gasoline	**3100**	110	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***---***	***57-129***				S
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
Gasoline	**5600**	110	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***---***	***57-129***				S
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
Gasoline	**ND**	12	NWTPH-Gx	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***92***	***57-129***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***85***	***57-129***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-056-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***96***	***93***	***57-129***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Gasoline	**110000**	5000	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***106***	***66-117***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Gasoline	**ND**	100	NWTPH-Gx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***82***	***66-117***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-058-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***80***	***78***	***66-117***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
Diesel Range Organics	**ND**	1500	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	**6000**	550	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***---***	***50-150***				S
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
Diesel Range Organics	**ND**	1100	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	**82**	59	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***92***	***50-150***				
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
Diesel Range Organics	**ND**	72	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	**ND**	58	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***67***	***50-150***				

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Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***100***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-028-26									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Lube Oil Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						***84***	***85***	***50-150***		

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Diesel Range Organics	**ND**	6.4	NWTPH-Dx	12-6-18	12-6-18	U1,M1
Lube Oil Range Organics	**0.38**	0.27	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***78***	***50-150***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-6-18	12-6-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***77***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	12-052-01									
	ORIG	DUP								
Diesel Range	**ND**	**ND**	NA	NA		NA	NA	NA	NA	U1
Lube Oil	**16.8**	**9.23**	NA	NA		NA	NA	58	NA	
Surrogate:										
o-Terphenyl						***94***	***90***	***50-150***		

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Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
Dichlorodifluoromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	1.2	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.59	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Benzene	0.27	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.59	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.12	EPA 8260C	12-6-18	12-6-18	

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Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
1,1,2-Trichloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	2.7	0.12	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	18	0.24	EPA 8260C	12-6-18	12-6-18	
o-Xylene	5.8	0.12	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.74	0.12	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.12	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	1.5	0.12	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	6.1	0.12	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	21	0.12	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	0.51	0.12	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	1.2	0.12	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	2.7	0.12	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.59	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.59	EPA 8260C	12-6-18	12-6-18	
Naphthalene	4.4	0.12	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.12	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***104***	***68-139***
Toluene-d8	***111***	***79-128***
4-Bromofluorobenzene	***101***	***71-132***

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Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
Dichlorodifluoromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.52	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.26	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.26	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Benzene	1.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.26	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Toluene	7.3	2.6	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.052	EPA 8260C	12-6-18	12-6-18	

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VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
1,1,2-Trichloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	17	0.52	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	65	1.0	EPA 8260C	12-6-18	12-6-18	
o-Xylene	15	0.52	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	3.1	0.052	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.052	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	8.6	0.52	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	19	0.52	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	0.060	0.052	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	61	0.52	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	1.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	2.3	0.052	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	7.4	0.52	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Naphthalene	11	0.52	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.052	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***107***	***68-139***
Toluene-d8	***110***	***79-128***
4-Bromofluorobenzene	***122***	***71-132***

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	0.054	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	0.0020	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	0.013	0.0051	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	0.0050	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Toluene	0.017	0.0051	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	0.023	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	0.10	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	0.023	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	0.0059	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	0.012	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	0.031	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	0.082	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	0.0030	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	0.0038	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	0.0074	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0051	EPA 8260C	12-6-18	12-6-18	
Naphthalene	0.0063	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Dibromofluoromethane	***105***	***68-139***				
Toluene-d8	***113***	***79-128***				
4-Bromofluorobenzene	***93***	***71-132***				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	0.010	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Dibromofluoromethane	***107***	***68-139***				
Toluene-d8	***100***	***79-128***				
4-Bromofluorobenzene	***98***	***71-132***				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0454**	**0.0460**	0.0500	0.0500	91	92	53-141	1	17	
Benzene	**0.0507**	**0.0509**	0.0500	0.0500	101	102	70-130	0	15	
Trichloroethene	**0.0456**	**0.0466**	0.0500	0.0500	91	93	74-122	2	16	
Toluene	**0.0478**	**0.0480**	0.0500	0.0500	96	96	76-130	0	15	
Chlorobenzene	**0.0441**	**0.0452**	0.0500	0.0500	88	90	75-120	2	14	
Surrogate:										
Dibromofluoromethane					***105***	***108***	***68-139***			
Toluene-d8					***101***	***101***	***79-128***			
4-Bromofluorobenzene					***97***	***100***	***71-132***			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Dichlorodifluoromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	260	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5000	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1000	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	200	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1000	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1000	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5000	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	
Benzene	760	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1000	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2000	EPA 8260C	12-6-18	12-6-18	
Toluene	2000	1000	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	200	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
1,1,2-Trichloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2000	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	2200	200	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	9600	400	EPA 8260C	12-6-18	12-6-18	
o-Xylene	2400	200	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	200	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1300	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	420	200	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	200	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	830	200	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	200	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	2100	200	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	7000	200	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	200	200	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	520	200	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1300	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	200	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	200	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1400	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	270	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***89***	***75-127***
Toluene-d8	***95***	***80-127***
4-Bromofluorobenzene	***94***	***78-125***

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-051-07					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-051-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***95***	***75-127***
Toluene-d8	***97***	***80-127***
4-Bromofluorobenzene	***96***	***78-125***

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloromethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromomethane	ND	0.26	EPA 8260C	12-6-18	12-6-18	
Chloroethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Acetone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Iodomethane	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-6-18	12-6-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Butanone	ND	5.0	EPA 8260C	12-6-18	12-6-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chloroform	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Benzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Trichloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Dibromomethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Toluene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Hexanone	ND	2.0	EPA 8260C	12-6-18	12-6-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-6-18	12-6-18	
o-Xylene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Styrene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromoform	ND	1.3	EPA 8260C	12-6-18	12-6-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Bromobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
1,2-Dibromo-3-chloropropane	ND	1.3	EPA 8260C	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-6-18	12-6-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-6-18	12-6-18	
Naphthalene	ND	1.4	EPA 8260C	12-6-18	12-6-18	
1,2,3-Trichlorobenzene	ND	0.27	EPA 8260C	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Dibromofluoromethane	***94***	***75-127***				
Toluene-d8	***99***	***80-127***				
4-Bromofluorobenzene	***96***	***78-125***				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.7**	**10.2**	10.0	10.0	107	102	62-129	5	15	
Benzene	**10.6**	**9.88**	10.0	10.0	106	99	77-127	7	15	
Trichloroethene	**10.7**	**10.2**	10.0	10.0	107	102	70-120	5	15	
Toluene	**10.7**	**10.2**	10.0	10.0	107	102	82-123	5	15	
Chlorobenzene	**9.82**	**9.49**	10.0	10.0	98	95	79-120	3	15	
Surrogate:										
Dibromofluoromethane					***94***	***93***	***75-127***			
Toluene-d8					***99***	***99***	***80-127***			
4-Bromofluorobenzene					***96***	***95***	***78-125***			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
n-Nitrosodimethylamine	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Pyridine	**ND**	37	EPA 8270D	12-6-18	12-7-18	
Phenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Aniline	**ND**	18	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Chlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,3-Dichlorobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,4-Dichlorobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Benzyl alcohol	**ND**	18	EPA 8270D	12-6-18	12-7-18	
1,2-Dichlorobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Hexachloroethane	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Nitrobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Isophorone	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Nitrophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dimethylphenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dichlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Naphthalene	**6.7**	3.7	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Hexachlorobutadiene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Methylnaphthalene	**1.2**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	**0.58**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,3-Dichloroaniline	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Chloronaphthalene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2-Nitroaniline	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,4-Dinitrobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Dimethylphthalate	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,3-Dinitrobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,6-Dinitrotoluene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,2-Dinitrobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Acenaphthylene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
2,4-Dinitrophenol	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Acenaphthene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,4-Dinitrotoluene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Dibenzofuran	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Diethylphthalate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
4-Nitroaniline	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Fluorene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	18	EPA 8270D	12-6-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Hexachlorobenzene	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Pentachlorophenol	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Phenanthrene	**0.29**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	3.7	EPA 8270D	12-6-18	12-7-18	
Di-n-butylphthalate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Fluoranthene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	37	EPA 8270D	12-6-18	12-7-18	
Pyrene	**0.22**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Benzo[a]anthracene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**0.29**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Di-n-octylphthalate	**ND**	18	EPA 8270D	12-6-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.15	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***68***	***19 - 103***				
Phenol-d6	***92***	***30 - 103***				
Nitrobenzene-d5	***86***	***27 - 105***				
2-Fluorobiphenyl	***79***	***36 - 102***				
2,4,6-Tribromophenol	***64***	***33 - 110***				
Terphenyl-d14	***82***	***38 - 108***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
n-Nitrosodimethylamine	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Pyridine	**ND**	0.40	EPA 8270D	12-6-18	12-7-18	
Phenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Aniline	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Chlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,3-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,4-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Benzyl alcohol	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
1,2-Dichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachloroethane	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Nitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Isophorone	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Nitrophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dimethylphenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Naphthalene	**3.7**	0.40	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Hexachlorobutadiene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Methylnaphthalene	**1.3**	0.040	EPA 8270D	12-6-18	12-7-18	
1-Methylnaphthalene	**0.60**	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,3-Dichloroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Chloronaphthalene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,4-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Dimethylphthalate	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,3-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,6-Dinitrotoluene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,2-Dinitrobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Acenaphthylene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
2,4-Dinitrophenol	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Acenaphthene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,4-Dinitrotoluene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Dibenzofuran	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Diethylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
4-Nitroaniline	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Fluorene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Hexachlorobenzene	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Pentachlorophenol	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Phenanthrene	**0.017**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	0.040	EPA 8270D	12-6-18	12-7-18	
Di-n-butylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Fluoranthene	**0.012**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	0.40	EPA 8270D	12-6-18	12-7-18	
Pyrene	**0.014**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Benzo[a]anthracene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Di-n-octylphthalate	**ND**	0.20	EPA 8270D	12-6-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0079	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***70***	***19 - 103***				
Phenol-d6	***73***	***30 - 103***				
Nitrobenzene-d5	***90***	***27 - 105***				
2-Fluorobiphenyl	***80***	***36 - 102***				
2,4,6-Tribromophenol	***79***	***33 - 110***				
Terphenyl-d14	***79***	***38 - 108***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
n-Nitrosodimethylamine	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	0.38	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**0.46**	0.038	EPA 8270D	12-6-18	12-6-18	
4-Chloroaniline	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**0.16**	0.038	EPA 8270D	12-6-18	12-6-18	
1-Methylnaphthalene	**0.067**	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachlorocyclopentadiene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
2,4-Dinitrophenol	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	0.038	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	0.38	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	0.19	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0077	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***56***	***19 - 103***				
Phenol-d6	***64***	***30 - 103***				
Nitrobenzene-d5	***64***	***27 - 105***				
2-Fluorobiphenyl	***68***	***36 - 102***				
2,4,6-Tribromophenol	***76***	***33 - 110***				
Terphenyl-d14	***77***	***38 - 108***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	0.33	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206S1					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Carbazole	**ND**	0.033	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzidine	**ND**	0.33	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-6-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***87***	***19 - 103***				
Phenol-d6	***91***	***30 - 103***				
Nitrobenzene-d5	***90***	***27 - 105***				
2-Fluorobiphenyl	***89***	***36 - 102***				
2,4,6-Tribromophenol	***93***	***33 - 110***				
Terphenyl-d14	***98***	***38 - 108***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1206S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.12**	**1.08**	1.33	1.33	84	81	45 - 105	4	29	
2-Chlorophenol	**1.08**	**1.04**	1.33	1.33	81	78	46 - 105	4	33	
1,4-Dichlorobenzene	**0.492**	**0.494**	0.667	0.667	74	74	42 - 105	0	37	
n-Nitroso-di-n-propylamine	**0.499**	**0.486**	0.667	0.667	75	73	45 - 105	3	26	
1,2,4-Trichlorobenzene	**0.528**	**0.525**	0.667	0.667	79	79	45 - 105	1	32	
4-Chloro-3-methylphenol	**1.15**	**1.11**	1.33	1.33	86	83	55 - 105	4	21	
Acenaphthene	**0.531**	**0.510**	0.667	0.667	80	76	48 - 105	4	21	
4-Nitrophenol	**1.13**	**1.08**	1.33	1.33	85	81	53 - 105	5	20	
2,4-Dinitrotoluene	**0.560**	**0.536**	0.667	0.667	84	80	47 - 105	4	19	
Pentachlorophenol	**1.24**	**1.22**	1.33	1.33	93	92	35 - 125	2	26	
Pyrene	**0.587**	**0.575**	0.667	0.667	88	86	55 - 110	2	17	
Surrogate:										
2-Fluorophenol					***79***	***75***	***19 - 103***			
Phenol-d6					***83***	***79***	***30 - 103***			
Nitrobenzene-d5					***84***	***79***	***27 - 105***			
2-Fluorobiphenyl					***83***	***78***	***36 - 102***			
2,4,6-Tribromophenol					***84***	***81***	***33 - 110***			
Terphenyl-d14					***88***	***85***	***38 - 108***			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
n-Nitrosodimethylamine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**280**	16	EPA 8270D	12-6-18	12-7-18	
4-Chloroaniline	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**48**	1.6	EPA 8270D	12-6-18	12-6-18	
1-Methylnaphthalene	**21**	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorocyclopentadiene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
2,4-Dinitrophenol	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Fluorene	**0.17**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**0.23**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	**ND**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.16	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	7.8	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**0.025**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	**0.035**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	**14**	7.8	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	1.6	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**0.029**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	**ND**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	**0.020**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	**0.017**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	**ND**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	**0.022**	0.016	EPA 8270D/SIM	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***32***	***12 - 80***				
Phenol-d6	***28***	***10 - 82***				
Nitrobenzene-d5	***69***	***30 - 103***				
2-Fluorobiphenyl	***79***	***33 - 103***				
2,4,6-Tribromophenol	***65***	***20 - 121***				
Terphenyl-d14	***89***	***32 - 113***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Pyridine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Phenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Aniline	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Isophorone	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1206W2					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Carbazole	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Benzidine	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-6-18	12-6-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-6-18	12-6-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-6-18	12-6-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***31***	***12 - 80***				
Phenol-d6	***25***	***10 - 82***				
Nitrobenzene-d5	***57***	***30 - 103***				
2-Fluorobiphenyl	***57***	***33 - 103***				
2,4,6-Tribromophenol	***59***	***20 - 121***				
Terphenyl-d14	***73***	***32 - 113***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
MS/MSD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-044-01										
	MS	MSD	MS	MSD		MS	MSD				
Phenol	**11.7**	**11.1**	39.1	37.4	ND	30	30	20 - 102	5	34	
2-Chlorophenol	**22.4**	**22.8**	39.1	37.4	ND	57	61	35 - 89	2	37	
1,4-Dichlorobenzene	**11.4**	**12.0**	19.6	18.7	ND	58	64	25 - 85	5	40	
n-Nitroso-di-n-propylamine	**12.8**	**13.0**	19.6	18.7	ND	65	70	23 - 113	2	36	
1,2,4-Trichlorobenzene	**13.6**	**14.0**	19.6	18.7	ND	69	75	31 - 88	3	40	
4-Chloro-3-methylphenol	**26.8**	**24.9**	39.1	37.4	ND	69	67	37 - 100	7	37	
Acenaphthene	**14.6**	**14.7**	19.6	18.7	ND	74	79	39 - 92	1	32	
4-Nitrophenol	**11.2**	**11.8**	39.1	37.4	ND	29	32	20 - 125	5	40	
2,4-Dinitrotoluene	**14.7**	**13.9**	19.6	18.7	ND	75	74	31 - 100	6	32	
Pentachlorophenol	**19.2**	**20.3**	39.1	37.4	ND	49	54	20 - 136	6	40	
Pyrene	**16.0**	**15.4**	19.6	18.7	ND	82	82	44 - 95	4	33	
Surrogate:											
2-Fluorophenol						***34***	***36***	***12 - 80***			
Phenol-d6						***28***	***29***	***10 - 82***			
Nitrobenzene-d5						***67***	***75***	***30 - 103***			
2-Fluorobiphenyl						***76***	***85***	***33 - 103***			
2,4,6-Tribromophenol						***79***	***82***	***20 - 121***			
Terphenyl-d14						***81***	***85***	***32 - 113***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
Aroclor 1016	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.055	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***60***	***39-130***				
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
Aroclor 1016	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.059	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***61***	***39-130***				
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
Aroclor 1016	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.058	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***72***	***39-130***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***89***	***39-130***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.312**	**0.326**	0.500	0.500	ND	**62**	**65**	45-118	4	15	
Surrogate:											
DCB						***71***	***78***	***39-130***			

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Aroclor 1016	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.074	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***98***	***44-144***				

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-6-18	12-6-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***112***	***44-144***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1206W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.497**	**0.504**	0.500	0.500	N/A	**99**	**101**	71-131	1	12	
Surrogate:											
DCB						***116***	***119***	***44-144***			

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-5**					
Laboratory ID:	12-051-01					
Arsenic	**ND**	11	EPA 6010D	12-6-18	12-6-18	
Barium	**100**	2.8	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.55	EPA 6010D	12-6-18	12-6-18	
Chromium	**35**	0.55	EPA 6010D	12-6-18	12-6-18	
Lead	**13**	5.5	EPA 6010D	12-6-18	12-6-18	
Mercury	**ND**	0.28	EPA 7471B	12-7-18	12-7-18	
Selenium	**ND**	11	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.1	EPA 6010D	12-6-18	12-6-18	
Client ID:	**H-19-18-15**					
Laboratory ID:	12-051-03					
Arsenic	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Barium	**76**	3.0	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.59	EPA 6010D	12-6-18	12-6-18	
Chromium	**53**	0.59	EPA 6010D	12-6-18	12-6-18	
Lead	**8.2**	5.9	EPA 6010D	12-6-18	12-6-18	
Mercury	**ND**	0.30	EPA 7471B	12-7-18	12-7-18	
Selenium	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.2	EPA 6010D	12-6-18	12-6-18	
Client ID:	**H-19-18-25**					
Laboratory ID:	12-051-05					
Arsenic	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Barium	**57**	2.9	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.58	EPA 6010D	12-6-18	12-6-18	
Chromium	**49**	0.58	EPA 6010D	12-6-18	12-6-18	
Lead	**6.0**	5.8	EPA 6010D	12-6-18	12-6-18	
Mercury	**ND**	0.29	EPA 7471B	12-7-18	12-7-18	
Selenium	**ND**	12	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.2	EPA 6010D	12-6-18	12-6-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206SM2					
Arsenic	**ND**	10	EPA 6010D	12-6-18	12-6-18	
Barium	**ND**	2.5	EPA 6010D	12-6-18	12-6-18	
Cadmium	**ND**	0.50	EPA 6010D	12-6-18	12-6-18	
Chromium	**ND**	0.50	EPA 6010D	12-6-18	12-6-18	
Lead	**ND**	5.0	EPA 6010D	12-6-18	12-6-18	
Selenium	**ND**	10	EPA 6010D	12-6-18	12-6-18	
Silver	**ND**	1.0	EPA 6010D	12-6-18	12-6-18	
Laboratory ID:	MB1207S1					
Mercury	**ND**	0.25	EPA 7471B	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-050-02										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**110**	**95.5**	NA	NA		NA		NA	14	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**47.7**	**43.3**	NA	NA		NA		NA	10	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-050-02										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-050-02										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**90.1**	**87.9**	100	100	ND	**90**	**88**	75-125	3	20	
Barium	**210**	**223**	100	100	110	**100**	**113**	75-125	6	20	
Cadmium	**49.2**	**45.2**	50.0	50.0	ND	**98**	**90**	75-125	8	20	
Chromium	**138**	**148**	100	100	47.7	**91**	**101**	75-125	7	20	
Lead	**252**	**228**	250	250	ND	**101**	**91**	75-125	10	20	
Selenium	**85.7**	**87.9**	100	100	ND	**86**	**88**	75-125	2	20	
Silver	**20.6**	**20.8**	25.0	25.0	ND	**82**	**83**	75-125	1	20	
Laboratory ID:	12-050-02										
Mercury	**0.522**	**0.495**	0.500	0.500	0.0233	**100**	**94**	80-120	5	20	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Arsenic	**570**	33	EPA 200.8	12-7-18	12-7-18	
Barium	**9800**	560	EPA 200.8	12-7-18	12-7-18	
Cadmium	**12**	8.9	EPA 200.8	12-7-18	12-7-18	
Chromium	**4800**	1100	EPA 200.8	12-7-18	12-7-18	
Lead	**800**	22	EPA 200.8	12-7-18	12-7-18	
Mercury	**1.8**	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	**76**	22	EPA 200.8	12-7-18	12-7-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-7-18	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	**ND**	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	**ND**	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Lead	**ND**	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	**ND**	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Laboratory ID:	MB1207W1					
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-06										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-06										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**219**	**229**	222	222	ND	**99**	**103**	75-125	4	20	
Barium	**232**	**232**	222	222	ND	**104**	**105**	75-125	0	20	
Cadmium	**213**	**224**	222	222	ND	**96**	**101**	75-125	5	20	
Chromium	**205**	**211**	222	222	ND	**92**	**95**	75-125	3	20	
Lead	**208**	**211**	222	222	ND	**94**	**95**	75-125	2	20	
Selenium	**215**	**228**	222	222	ND	**97**	**103**	75-125	6	20	
Silver	**226**	**225**	222	222	ND	**102**	**101**	75-125	0	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.4**	12.5	12.5	ND	**92**	**91**	75-125	1	20	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-19-18-GW**					
Laboratory ID:	12-051-06					
Arsenic	**3.9**	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	**37**	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	**ND**	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Lead	**1.2**	1.0	EPA 200.8	12-6-18	12-7-18	
Mercury	**ND**	0.50	EPA 7470A	12-6-18	12-7-18	
Selenium	**ND**	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	**ND**	10	EPA 200.8	12-6-18	12-7-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1206F1					
Arsenic	**ND**	3.0	EPA 200.8	12-6-18	12-7-18	
Barium	**ND**	25	EPA 200.8	12-6-18	12-7-18	
Cadmium	**ND**	4.0	EPA 200.8	12-6-18	12-7-18	
Chromium	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Lead	**ND**	1.0	EPA 200.8	12-6-18	12-7-18	
Selenium	**ND**	5.0	EPA 200.8	12-6-18	12-7-18	
Silver	**ND**	10	EPA 200.8	12-6-18	12-7-18	
Laboratory ID:	MB1206F1					
Mercury	**ND**	0.50	EPA 7470A	12-6-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-050-06										
	ORIG	DUP									
Arsenic	**32.4**	**30.6**	NA	NA		NA		NA	6	20	
Barium	**78.8**	**79.4**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-050-06										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**111**	**111**	80.0	80.0	32.4	**99**	**98**	75-125	1	20	
Barium	**157**	**151**	80.0	80.0	78.8	**97**	**91**	75-125	4	20	
Cadmium	**79.0**	**74.6**	80.0	80.0	ND	**99**	**93**	75-125	6	20	
Chromium	**77.2**	**73.6**	80.0	80.0	ND	**97**	**92**	75-125	5	20	
Lead	**68.4**	**65.6**	80.0	80.0	ND	**86**	**82**	75-125	4	20	
Selenium	**83.0**	**82.2**	80.0	80.0	ND	**104**	**103**	75-125	1	20	
Silver	**75.6**	**74.0**	80.0	80.0	ND	**95**	**93**	75-125	2	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.6**	12.5	12.5	ND	**92**	**92**	75-125	0	20	

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Date of Report: December 7, 2018
Samples Submitted: December 6, 2018
Laboratory Reference: 1812-051
Project: Montlake

% MOISTURE

Date Analyzed: 12-6-18

Client ID	Lab ID	% Moisture
H-19-18-5	12-051-01	9
H-19-18-15	12-051-03	16
H-19-18-25	12-051-05	13

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Haymon
Sampled by: Colin Duffy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-051

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				% Moisture
1	H-19-18-5	12/5/18	2340	S	5			X	X	X			X		X				X			~~HOLD~~				X
2	-10	12/5/18	2348		5			X	X	X			X		X				X			HOLD				X
3	-15	12/6/18	0000		5			X	X	X			X		X				X							X
4	-20	12/6/18	0015		5			X	X	X			X		X				X			HOLD				X
5	-25	12/6/18	0034		5			X	X	X			X		X				X			~~HOLD~~				X
	-30				5			X	X	X			X		X				X							X
6	H-19-18-GW	12/6/18	0111	W	12			X	X	X			X		X				X							
7	Trip Blank	—	—	W	1					X																

	Signature	Company	Date	Time
Relinquished	[signature]	IEM		
Received	[signature]	IEM	12/6/18	0620
Relinquished				0650
Received	[signature]	OSE	12.6.18	6:50A
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
GW for total & dissolved - lab filter
Hold samples show above
(X) Added 12/6/18 BC
Lday TA

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

OnSite Environmental Inc.
14648 NE 95th Street, Redmond, WA 98052 • (425) 883-3881

December 10, 2018

Glenn Hayman
INNOVEX Environmental Mgt., Inc.
16310 NE 80th St., Suite 300
Redmond, WA 98052

Re: Analytical Data for Project Montlake
Laboratory Reference No. 1812-073

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on December 7, 2018.

The standard policy of OnSite Environmental, Inc. is to store your samples for 30 days from the date of receipt. If you require longer storage, please contact the laboratory.

We appreciate the opportunity to be of service to you on this project. If you have any questions concerning the data, or need additional information, please feel free to call me.

Sincerely,

David Baumeister
Project Manager

Enclosures

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

Case Narrative

Samples were collected on December 6, 2018 and received by the laboratory on December 7, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

Please note that any and all soil sample results are reported on a dry-weight basis, unless otherwise noted below.

General QA/QC issues associated with the analytical data enclosed in this laboratory report will be indicated with a reference to a comment or explanation on the Data Qualifier page. More complex and involved QA/QC issues will be discussed in detail below.

Volatiles EPA 8260C Analysis

Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. Method 5035A VOA vials containing stir bars were not provided for sample H-21-18-21. Therefore, one of the VOA vials without a stir bar was used for the low-level VOC analysis.

Any other QA/QC issues associated with this extraction and analysis will be indicated with a footnote reference and discussed in detail on the Data Qualifier page.

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
Gasoline	**ND**	4.8	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***77***	***57-129***				
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
Gasoline	**ND**	5.8	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***85***	***57-129***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Soil
Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Gasoline	**ND**	5.0	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***83***	***57-129***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-073-04										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***77***	***73***	***57-129***			

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Gasoline	**1700**	100	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***86***	***66-117***				
Client ID:	**H-22-18-GW**					
Laboratory ID:	12-073-07					
Gasoline	**1800**	100	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***92***	***66-117***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

GASOLINE RANGE ORGANICS
NWTPH-Gx
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Gasoline	**ND**	100	NWTPH-Gx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Fluorobenzene	***84***	***66-117***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-072-01										
	ORIG	DUP									
Gasoline	**ND**	**ND**	NA	NA		NA		NA	NA	30	
Surrogate:											
Fluorobenzene						***80***	***81***	***66-117***			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
Diesel Range Organics	**ND**	27	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	**ND**	54	NWTPH-Dx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***102***	***50-150***				
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
Diesel Range Organics	**ND**	28	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	**ND**	56	NWTPH-Dx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***74***	***50-150***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Diesel Range Organics	**ND**	25	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	**ND**	50	NWTPH-Dx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***90***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-065-01										
	ORIG	DUP									
Diesel Range	**ND**	**ND**	NA	NA		NA		NA	NA	NA	
Lube Oil	**84.0**	**ND**	NA	NA		NA		NA	NA	NA	
Surrogate:											
o-Terphenyl						***91***	***95***	***50-150***			

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Diesel Range Organics	**ND**	0.31	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	**ND**	0.50	NWTPH-Dx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***90***	***50-150***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx
QUALITY CONTROL

Matrix: Water
Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Diesel Range Organics	**ND**	0.25	NWTPH-Dx	12-7-18	12-7-18	
Lube Oil Range Organics	**ND**	0.40	NWTPH-Dx	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
o-Terphenyl	***78***	***50-150***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	SB1207W1										
	ORIG	DUP									
Diesel Fuel #2	**0.765**	**0.667**	NA	NA		NA		NA	14	NA	
Surrogate:											
o-Terphenyl						***92***	***83***	***50-150***			

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and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
Dichlorodifluoromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.0072	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
1,1,2-Trichloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0014	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0036	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.00072	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***109***	***68-139***
Toluene-d8	***99***	***79-128***
4-Bromofluorobenzene	***97***	***71-132***

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.010	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0021	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0052	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***107***	***68-139***
Toluene-d8	***101***	***79-128***
4-Bromofluorobenzene	***97***	***71-132***

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	0.010	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.0020	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
Dibromofluoromethane	***107***	***68-139***				
Toluene-d8	***99***	***79-128***				
4-Bromofluorobenzene	***98***	***71-132***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**0.0424**	**0.0420**	0.0500	0.0500	85	84	53-141	1	17	
Benzene	**0.0478**	**0.0474**	0.0500	0.0500	96	95	70-130	1	15	
Trichloroethene	**0.0485**	**0.0461**	0.0500	0.0500	97	92	74-122	5	16	
Toluene	**0.0486**	**0.0478**	0.0500	0.0500	97	96	76-130	2	15	
Chlorobenzene	**0.0450**	**0.0443**	0.0500	0.0500	90	89	75-120	2	14	
Surrogate:										
Dibromofluoromethane					***108***	***107***	***68-139***			
Toluene-d8					***100***	***97***	***79-128***			
4-Bromofluorobenzene					***101***	***98***	***71-132***			

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	37	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	6.5	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	25	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Benzene	30	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	7.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-7-18	12-7-18	
Toluene	26	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	10	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	81	1.0	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	220	2.0	EPA 8260C	12-7-18	12-7-18	
o-Xylene	77	1.0	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	7.7	1.0	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	15	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	23	1.0	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	100	1.0	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	1.8	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	2.4	1.0	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	28	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***98***	***75-127***
Toluene-d8	***102***	***80-127***
4-Bromofluorobenzene	***101***	***78-125***

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-22-18-GW**					
Laboratory ID:	12-073-07					
Dichlorodifluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	37	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	6.5	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	5.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	25	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Benzene	28	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	7.0	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	10	EPA 8260C	12-7-18	12-7-18	
Toluene	24	5.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	1.0	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-22-18-GW**					
Laboratory ID:	12-073-07					
1,1,2-Trichloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	10	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	78	1.0	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	210	2.0	EPA 8260C	12-7-18	12-7-18	
o-Xylene	74	1.0	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	7.0	1.0	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	14	1.0	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	21	1.0	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	93	1.0	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	1.6	1.0	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	2.2	1.0	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	26	5.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	1.0	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***102***	***75-127***
Toluene-d8	***101***	***80-127***
4-Bromofluorobenzene	***102***	***78-125***

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-073-08					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.26	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	7.3	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**Trip Blank**					
Laboratory ID:	12-073-08					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***98***	***75-127***
Toluene-d8	***101***	***80-127***
4-Bromofluorobenzene	***96***	***78-125***

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloromethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Vinyl Chloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromomethane	ND	0.26	EPA 8260C	12-7-18	12-7-18	
Chloroethane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Acetone	ND	7.3	EPA 8260C	12-7-18	12-7-18	
Iodomethane	ND	1.3	EPA 8260C	12-7-18	12-7-18	
Carbon Disulfide	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methylene Chloride	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl t-Butyl Ether	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Vinyl Acetate	ND	1.0	EPA 8260C	12-7-18	12-7-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Butanone	ND	5.0	EPA 8260C	12-7-18	12-7-18	
Bromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chloroform	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Benzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Trichloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Dibromomethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromodichloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chloroethyl Vinyl Ether	ND	1.4	EPA 8260C	12-7-18	12-7-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Methyl Isobutyl Ketone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Toluene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Tetrachloroethene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Hexanone	ND	2.0	EPA 8260C	12-7-18	12-7-18	
Dibromochloromethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Chlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Ethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
m,p-Xylene	ND	0.40	EPA 8260C	12-7-18	12-7-18	
o-Xylene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Styrene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromoform	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Isopropylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Bromobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Propylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3,5-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
tert-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trimethylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
sec-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
p-Isopropyltoluene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
n-Butylbenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
Naphthalene	ND	1.0	EPA 8260C	12-7-18	12-7-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	12-7-18	12-7-18	

Surrogate:	***Percent Recovery***	***Control Limits***
Dibromofluoromethane	***94***	***75-127***
Toluene-d8	***98***	***80-127***
4-Bromofluorobenzene	***89***	***78-125***

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

VOLATILE ORGANICS EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	**10.9**	**10.5**	10.0	10.0	109	105	62-129	4	15	
Benzene	**10.7**	**10.6**	10.0	10.0	107	106	77-127	1	15	
Trichloroethene	**10.2**	**10.0**	10.0	10.0	102	100	70-120	2	15	
Toluene	**10.5**	**10.4**	10.0	10.0	105	104	82-123	1	15	
Chlorobenzene	**9.96**	**10.0**	10.0	10.0	100	100	79-120	0	15	
Surrogate:										
Dibromofluoromethane					***98***	***97***	***75-127***			
Toluene-d8					***99***	***99***	***80-127***			
4-Bromofluorobenzene					***99***	***99***	***78-125***			

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
n-Nitrosodimethylamine	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Pyridine	**ND**	0.36	EPA 8270D	12-7-18	12-7-18	
Phenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Aniline	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Isophorone	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Naphthalene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
2,4-Dinitrophenol	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Fluorene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	**ND**	0.036	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	**ND**	0.36	EPA 8270D	12-7-18	12-7-18	
Pyrene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	**ND**	0.18	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0072	EPA 8270D/SIM	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***69***	***19 - 103***				
Phenol-d6	***71***	***30 - 103***				
Nitrobenzene-d5	***59***	***27 - 105***				
2-Fluorobiphenyl	***69***	***36 - 102***				
2,4,6-Tribromophenol	***76***	***33 - 110***				
Terphenyl-d14	***67***	***38 - 108***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
n-Nitrosodimethylamine	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Pyridine	**ND**	0.37	EPA 8270D	12-7-18	12-7-18	
Phenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Aniline	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Isophorone	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Naphthalene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
2,4-Dinitrophenol	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Fluorene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	**ND**	0.037	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	**ND**	0.37	EPA 8270D	12-7-18	12-7-18	
Pyrene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	**ND**	0.19	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0075	EPA 8270D/SIM	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***66***	***19 - 103***				
Phenol-d6	***71***	***30 - 103***				
Nitrobenzene-d5	***65***	***27 - 105***				
2-Fluorobiphenyl	***71***	***36 - 102***				
2,4,6-Tribromophenol	***80***	***33 - 110***				
Terphenyl-d14	***71***	***38 - 108***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Soil
Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
n-Nitrosodimethylamine	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Pyridine	**ND**	0.33	EPA 8270D	12-7-18	12-7-18	
Phenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Aniline	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Isophorone	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Naphthalene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207S1					
2,4-Dinitrophenol	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Fluorene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	**ND**	0.033	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	**ND**	0.33	EPA 8270D	12-7-18	12-7-18	
Pyrene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	**ND**	0.17	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.0067	EPA 8270D/SIM	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***74***	***19 - 103***				
Phenol-d6	***80***	***30 - 103***				
Nitrobenzene-d5	***77***	***27 - 105***				
2-Fluorobiphenyl	***80***	***36 - 102***				
2,4,6-Tribromophenol	***85***	***33 - 110***				
Terphenyl-d14	***78***	***38 - 108***				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Soil
Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207S1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**1.16**	**1.19**	1.33	1.33	87	89	45 - 105	3	29	
2-Chlorophenol	**1.13**	**1.13**	1.33	1.33	85	85	46 - 105	0	33	
1,4-Dichlorobenzene	**0.549**	**0.560**	0.667	0.667	82	84	42 - 105	2	37	
n-Nitroso-di-n-propylamine	**0.569**	**0.557**	0.667	0.667	85	84	45 - 105	2	26	
1,2,4-Trichlorobenzene	**0.604**	**0.588**	0.667	0.667	91	88	45 - 105	3	32	
4-Chloro-3-methylphenol	**1.29**	**1.24**	1.33	1.33	97	93	55 - 105	4	21	
Acenaphthene	**0.568**	**0.550**	0.667	0.667	85	82	48 - 105	3	21	
4-Nitrophenol	**1.26**	**1.21**	1.33	1.33	95	91	53 - 105	4	20	
2,4-Dinitrotoluene	**0.673**	**0.647**	0.667	0.667	101	97	47 - 105	4	19	
Pentachlorophenol	**1.29**	**1.23**	1.33	1.33	97	92	35 - 125	5	26	
Pyrene	**0.587**	**0.551**	0.667	0.667	88	83	55 - 110	6	17	
Surrogate:										
2-Fluorophenol					***84***	***81***	***19 - 103***			
Phenol-d6					***91***	***88***	***30 - 103***			
Nitrobenzene-d5					***88***	***85***	***27 - 105***			
2-Fluorobiphenyl					***90***	***87***	***36 - 102***			
2,4,6-Tribromophenol					***103***	***100***	***33 - 110***			
Terphenyl-d14					***94***	***86***	***38 - 108***			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
n-Nitrosodimethylamine	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Pyridine	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Phenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Aniline	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Isophorone	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Naphthalene	**8.5**	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chloroaniline	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	**2.4**	1.9	EPA 8270D	12-7-18	12-7-18	
1-Methylnaphthalene	**1.5**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
2,4-Dinitrophenol	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Fluorene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	3.8	EPA 8270D	12-7-18	12-7-18	U1
4-Bromophenyl-phenylether	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
Pyrene	**ND**	0.19	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	9.4	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**24**	9.4	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	**ND**	1.9	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.32	EPA 8270D/SIM	12-7-18	12-7-18	U1
Benzo(j,k)fluoranthene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.019	EPA 8270D/SIM	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***22***	***12 - 80***				
Phenol-d6	***27***	***10 - 82***				
Nitrobenzene-d5	***38***	***30 - 103***				
2-Fluorobiphenyl	***46***	***33 - 103***				
2,4,6-Tribromophenol	***48***	***20 - 121***				
Terphenyl-d14	***43***	***32 - 113***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 1 of 2

Matrix: Water
Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
n-Nitrosodimethylamine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Pyridine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Phenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Aniline	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethyl)ether	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Chlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,3-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,4-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Benzyl alcohol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Dichlorobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Methylphenol (o-Cresol)	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroisopropyl)ether	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
(3+4)-Methylphenol (m,p-Cresol)	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
n-Nitroso-di-n-propylamine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachloroethane	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Nitrobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Isophorone	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Nitrophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dimethylphenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
bis(2-Chloroethoxy)methane	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dichlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,2,4-Trichlorobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Naphthalene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4-Chloroaniline	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachlorobutadiene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
4-Chloro-3-methylphenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
1-Methylnaphthalene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Hexachlorocyclopentadiene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,4,6-Trichlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,3-Dichloroaniline	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,4,5-Trichlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Chloronaphthalene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2-Nitroaniline	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,4-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Dimethylphthalate	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,3-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,6-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Dinitrobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Acenaphthylene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
3-Nitroaniline	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
METHOD BLANK QUALITY CONTROL
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1207W1					
2,4-Dinitrophenol	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
Acenaphthene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4-Nitrophenol	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
2,4-Dinitrotoluene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Dibenzofuran	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,3,5,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
2,3,4,6-Tetrachlorophenol	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Diethylphthalate	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
4-Chlorophenyl-phenylether	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
4-Nitroaniline	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Fluorene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
4,6-Dinitro-2-methylphenol	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
n-Nitrosodiphenylamine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
1,2-Diphenylhydrazine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
4-Bromophenyl-phenylether	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Hexachlorobenzene	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Pentachlorophenol	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
Phenanthrene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Anthracene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Carbazole	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Di-n-butylphthalate	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
Fluoranthene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Benzidine	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
Pyrene	**ND**	0.10	EPA 8270D/SIM	12-7-18	12-7-18	
Butylbenzylphthalate	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
bis-2-Ethylhexyladipate	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
3,3'-Dichlorobenzidine	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Benzo[a]anthracene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Chrysene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
bis(2-Ethylhexyl)phthalate	**ND**	5.0	EPA 8270D	12-7-18	12-7-18	
Di-n-octylphthalate	**ND**	1.0	EPA 8270D	12-7-18	12-7-18	
Benzo[b]fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo(j,k)fluoranthene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[a]pyrene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Indeno[1,2,3-cd]pyrene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Dibenz[a,h]anthracene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Benzo[g,h,i]perylene	**ND**	0.010	EPA 8270D/SIM	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
2-Fluorophenol	***34***	***12 - 80***				
Phenol-d6	***28***	***10 - 82***				
Nitrobenzene-d5	***66***	***30 - 103***				
2-Fluorobiphenyl	***67***	***33 - 103***				
2,4,6-Tribromophenol	***77***	***20 - 121***				
Terphenyl-d14	***84***	***32 - 113***				

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

SEMIVOLATILE ORGANICS EPA 8270D/SIM
SB/SBD QUALITY CONTROL

Matrix: Water
Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB1207W1									
	SB	SBD	SB	SBD	SB	SBD				
Phenol	**12.2**	**12.9**	40.0	40.0	31	32	24 - 52	6	28	
2-Chlorophenol	**24.2**	**25.1**	40.0	40.0	61	63	44 - 91	4	30	
1,4-Dichlorobenzene	**9.76**	**7.45**	20.0	20.0	49	37	36 - 82	27	33	
n-Nitroso-di-n-propylamine	**13.2**	**13.8**	20.0	20.0	66	69	43 - 93	4	29	
1,2,4-Trichlorobenzene	**11.5**	**9.44**	20.0	20.0	58	47	40 - 86	20	28	
4-Chloro-3-methylphenol	**31.3**	**34.7**	40.0	40.0	78	87	49 - 99	10	25	
Acenaphthene	**13.7**	**13.9**	20.0	20.0	69	70	47 - 90	1	25	
4-Nitrophenol	**15.8**	**16.2**	40.0	40.0	40	41	23 - 61	2	30	
2,4-Dinitrotoluene	**16.0**	**17.5**	20.0	20.0	80	88	42 - 97	9	26	
Pentachlorophenol	**33.9**	**34.0**	40.0	40.0	85	85	39 - 115	0	29	
Pyrene	**15.1**	**15.5**	20.0	20.0	76	78	51 - 100	3	22	
Surrogate:										
2-Fluorophenol					***37***	***38***	***12 - 80***			
Phenol-d6					***29***	***30***	***10 - 82***			
Nitrobenzene-d5					***68***	***68***	***30 - 103***			
2-Fluorobiphenyl					***72***	***69***	***33 - 103***			
2,4,6-Tribromophenol					***83***	***88***	***20 - 121***			
Terphenyl-d14					***77***	***80***	***32 - 113***			

This report pertains to the samples analyzed in accordance with the chain of custody,
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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

PCBs EPA 8082A

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
Aroclor 1016	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.054	EPA 8082A	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***70***	***39-130***				
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
Aroclor 1016	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.056	EPA 8082A	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***76***	***39-130***				

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207S1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***81***	***39-130***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
MATRIX SPIKES											
Laboratory ID:	12-073-04										
	MS	MSD	MS	MSD		MS	MSD				
Aroclor 1260	**0.329**	**0.345**	0.500	0.500	ND	**66**	**69**	45-118	5	15	
Surrogate:											
DCB						***67***	***79***	***39-130***			

This report pertains to the samples analyzed in accordance with the chain of custody,
and is intended only for the use of the individual or company to whom it is addressed.

Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

PCBs EPA 8082A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Aroclor 1016	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.077	EPA 8082A	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***78***	***44-144***				

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

PCBs EPA 8082A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207W1					
Aroclor 1016	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1221	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1232	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1242	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1248	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1254	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Aroclor 1260	**ND**	0.050	EPA 8082A	12-7-18	12-7-18	
Surrogate:	***Percent Recovery***	***Control Limits***				
DCB	***106***	***44-144***				

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS											
Laboratory ID:	SB1207W1										
	SB	SBD	SB	SBD		SB	SBD				
Aroclor 1260	**0.495**	**0.492**	0.500	0.500	N/A	**99**	**98**	71-131	1	12	
Surrogate:											
DCB						***111***	***116***	***44-144***			

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

TOTAL METALS
EPA 6010D/7471B

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-20**					
Laboratory ID:	12-073-04					
Arsenic	**ND**	11	EPA 6010D	12-10-18	12-10-18	
Barium	**52**	2.7	EPA 6010D	12-10-18	12-10-18	
Cadmium	**ND**	0.54	EPA 6010D	12-10-18	12-10-18	
Chromium	**52**	0.54	EPA 6010D	12-10-18	12-10-18	
Lead	**ND**	5.4	EPA 6010D	12-10-18	12-10-18	
Mercury	**ND**	0.27	EPA 7471B	12-10-18	12-10-18	
Selenium	**ND**	11	EPA 6010D	12-10-18	12-10-18	
Silver	**ND**	1.1	EPA 6010D	12-10-18	12-10-18	
Client ID:	**H-21-18-21**					
Laboratory ID:	12-073-05					
Arsenic	**ND**	11	EPA 6010D	12-10-18	12-10-18	
Barium	**55**	2.8	EPA 6010D	12-10-18	12-10-18	
Cadmium	**ND**	0.56	EPA 6010D	12-10-18	12-10-18	
Chromium	**52**	0.56	EPA 6010D	12-10-18	12-10-18	
Lead	**ND**	5.6	EPA 6010D	12-10-18	12-10-18	
Mercury	**ND**	0.28	EPA 7471B	12-10-18	12-10-18	
Selenium	**ND**	11	EPA 6010D	12-10-18	12-10-18	
Silver	**ND**	1.1	EPA 6010D	12-10-18	12-10-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

TOTAL METALS
EPA 6010D/7471B
QUALITY CONTROL

Matrix: Soil
Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1210SM1					
Arsenic	**ND**	10	EPA 6010D	12-10-18	12-10-18	
Barium	**ND**	2.5	EPA 6010D	12-10-18	12-10-18	
Cadmium	**ND**	0.50	EPA 6010D	12-10-18	12-10-18	
Chromium	**ND**	0.50	EPA 6010D	12-10-18	12-10-18	
Lead	**ND**	5.0	EPA 6010D	12-10-18	12-10-18	
Selenium	**ND**	10	EPA 6010D	12-10-18	12-10-18	
Silver	**ND**	1.0	EPA 6010D	12-10-18	12-10-18	
Laboratory ID:	MB1210S2					
Mercury	**ND**	0.25	EPA 7471B	12-10-18	12-10-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-073-05										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**49.1**	**49.6**	NA	NA		NA		NA	1	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**46.5**	**45.4**	NA	NA		NA		NA	2	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-073-05										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**95.3**	**96.6**	100	100	ND	**95**	**97**	75-125	1	20	
Barium	**153**	**157**	100	100	49.1	**104**	**108**	75-125	3	20	
Cadmium	**46.4**	**47.9**	50.0	50.0	ND	**93**	**96**	75-125	3	20	
Chromium	**132**	**138**	100	100	46.5	**85**	**91**	75-125	5	20	
Lead	**231**	**239**	250	250	ND	**92**	**96**	75-125	3	20	
Selenium	**96.4**	**92.8**	100	100	ND	**96**	**93**	75-125	4	20	
Silver	**22.4**	**22.5**	25.0	25.0	ND	**89**	**90**	75-125	1	20	
Laboratory ID:	12-073-05										
Mercury	**0.553**	**0.537**	0.500	0.500	0.0170	**107**	**104**	80-120	3	20	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

TOTAL METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Arsenic	**52**	6.7	EPA 200.8	12-7-18	12-10-18	
Barium	**820**	56	EPA 200.8	12-7-18	12-10-18	
Cadmium	**ND**	4.4	EPA 200.8	12-7-18	12-10-18	
Chromium	**420**	22	EPA 200.8	12-7-18	12-10-18	
Lead	**34**	2.2	EPA 200.8	12-7-18	12-10-18	
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	**ND**	5.6	EPA 200.8	12-7-18	12-10-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-10-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

TOTAL METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207WM1					
Arsenic	**ND**	3.3	EPA 200.8	12-7-18	12-7-18	
Barium	**ND**	28	EPA 200.8	12-7-18	12-7-18	
Cadmium	**ND**	4.4	EPA 200.8	12-7-18	12-7-18	
Chromium	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Lead	**ND**	1.1	EPA 200.8	12-7-18	12-7-18	
Selenium	**ND**	5.6	EPA 200.8	12-7-18	12-7-18	
Silver	**ND**	11	EPA 200.8	12-7-18	12-7-18	
Laboratory ID:	MB1207W1					
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	11-213-06										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	11-213-06										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**219**	**229**	222	222	ND	**99**	**103**	75-125	4	20	
Barium	**232**	**232**	222	222	ND	**104**	**105**	75-125	0	20	
Cadmium	**213**	**224**	222	222	ND	**96**	**101**	75-125	5	20	
Chromium	**209**	**205**	222	222	ND	**94**	**92**	75-125	2	20	
Lead	**208**	**211**	222	222	ND	**94**	**95**	75-125	2	20	
Selenium	**215**	**228**	222	222	ND	**97**	**103**	75-125	6	20	
Silver	**226**	**225**	222	222	ND	**102**	**101**	75-125	0	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.4**	12.5	12.5	ND	**92**	**91**	75-125	1	20	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	**H-21-18-GW**					
Laboratory ID:	12-073-06					
Arsenic	**ND**	3.0	EPA 200.8	12-7-18	12-10-18	
Barium	**ND**	25	EPA 200.8	12-7-18	12-10-18	
Cadmium	**ND**	4.0	EPA 200.8	12-7-18	12-10-18	
Chromium	**ND**	10	EPA 200.8	12-7-18	12-10-18	
Lead	**ND**	1.0	EPA 200.8	12-7-18	12-10-18	
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	
Selenium	**ND**	5.0	EPA 200.8	12-7-18	12-10-18	
Silver	**ND**	10	EPA 200.8	12-7-18	12-10-18	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

DISSOLVED METALS
EPA 200.8/7470A
QUALITY CONTROL

Matrix: Water
Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1207F1					
Arsenic	**ND**	3.0	EPA 200.8	12-7-18	12-10-18	
Barium	**ND**	25	EPA 200.8	12-7-18	12-10-18	
Cadmium	**ND**	4.0	EPA 200.8	12-7-18	12-10-18	
Chromium	**ND**	10	EPA 200.8	12-7-18	12-10-18	
Lead	**ND**	1.0	EPA 200.8	12-7-18	12-10-18	
Selenium	**ND**	5.0	EPA 200.8	12-7-18	12-10-18	
Silver	**ND**	10	EPA 200.8	12-7-18	12-10-18	
Laboratory ID:	MB1207F1					
Mercury	**ND**	0.50	EPA 7470A	12-7-18	12-7-18	

Analyte	Result		Spike Level		Source Result	Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE											
Laboratory ID:	12-072-01										
	ORIG	DUP									
Arsenic	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Barium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Cadmium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Chromium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Lead	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Selenium	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Silver	**ND**	**ND**	NA	NA		NA		NA	NA	20	
Laboratory ID:	12-052-01										
Mercury	**ND**	**ND**	NA	NA		NA		NA	NA	20	
MATRIX SPIKES											
Laboratory ID:	12-072-01										
	MS	MSD	MS	MSD		MS	MSD				
Arsenic	**80.0**	**81.4**	80.0	80.0	ND	**100**	**102**	75-125	2	20	
Barium	**82.6**	**89.0**	80.0	80.0	ND	**103**	**111**	75-125	7	20	
Cadmium	**72.4**	**77.8**	80.0	80.0	ND	**91**	**97**	75-125	7	20	
Chromium	**71.4**	**72.8**	80.0	80.0	ND	**89**	**91**	75-125	2	20	
Lead	**68.4**	**72.6**	80.0	80.0	ND	**86**	**91**	75-125	6	20	
Selenium	**76.8**	**76.8**	80.0	80.0	ND	**96**	**96**	75-125	0	20	
Silver	**73.6**	**79.6**	80.0	80.0	ND	**92**	**100**	75-125	8	20	
Laboratory ID:	12-052-01										
Mercury	**11.5**	**11.6**	12.5	12.5	ND	**92**	**92**	75-125	0	20	

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Date of Report: December 10, 2018
Samples Submitted: December 7, 2018
Laboratory Reference: 1812-073
Project: Montlake

% MOISTURE

Date Analyzed: 12-7-18

Client ID	Lab ID	% Moisture
H-21-18-20	12-073-04	7
H-21-18-21	12-073-05	11

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OnSite Environmental Inc.

Data Qualifiers and Abbreviations

A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.

B - The analyte indicated was also found in the blank sample.

C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.

E - The value reported exceeds the quantitation range and is an estimate.

F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.

H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.

I - Compound recovery is outside of the control limits.

J - The value reported was below the practical quantitation limit. The value is an estimate.

K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.

L - The RPD is outside of the control limits.

M - Hydrocarbons in the gasoline range are impacting the diesel range result.

M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.

N - Hydrocarbons in the lube oil range are impacting the diesel range result.

N1 - Hydrocarbons in diesel range are impacting lube oil range results.

O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.

P - The RPD of the detected concentrations between the two columns is greater than 40.

Q - Surrogate recovery is outside of the control limits.

S - Surrogate recovery data is not available due to the necessary dilution of the sample.

T - The sample chromatogram is not similar to a typical _____.

U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.

U1 - The practical quantitation limit is elevated due to interferences present in the sample.

V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.

W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.

X - Sample extract treated with a mercury cleanup procedure.

X1- Sample extract treated with a sulfuric acid/silica gel cleanup procedure.

Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.

Z -

ND - Not Detected at PQL
PQL - Practical Quantitation Limit
RPD - Relative Percent Difference

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OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

Page 1 of 1

Company: INNOVEX
Project Number:
Project Name: Montlake
Project Manager: Glenn Haymon
Sampled by: Colin Duffy

Turnaround Request (in working days)
(Check One)
☐ Same Day ☒ 1 Day
☐ 2 Days ☐ 3 Days
☐ Standard (7 Days)
☐ _____ (other)

Laboratory Number: 12-073

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (☐ Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A				% Moisture
1	H-21-18-5	12/6/18	2030	S	5			X	X	X			X		X				X		HOLD					X
2	-10	12/6/18	2037		5			X	X	X			X		X				X		HOLD					X
3	-15	12/6/18	2048		5			X	X	X			X		X				X		HOLD					X
4	-20	12/6/18	2316		5			X	X	X			X		X				X							X
5	~~-25~~ 21 12/6/18	~~12/6/18~~	2317		5			X	X	X			X		X				X							X
	~~-30~~		2345		5			X	X	X			X		X				X							X
6	H-21-18-GW	12/6/18	~~1145~~	W	10			X	X	X			X		X				X							
7	H-22-18-GW	12/6/18	2350	W	4			X		X																
8	Trip Blank	—	—	W	1					X																

	Signature	Company	Date	Time
Relinquished	[signature]	IEM		
Received	[signature]	IEM	12/7/18	0600
Relinquished	[signature]	IEM	12/7/18	0635
Received	[signature]	OSE	12.7.18	6:35A
Relinquished				
Received				
Reviewed/Date		Reviewed/Date		

Comments/Special Instructions
Total & Dissolved metals - lab filter
Hold samples show above

Data Package: Standard ☒ Level III ☐ Level IV ☐
Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☒

APPENDIX C
GPR SURVEY

Underground Detection Services, Inc.

6809 North 56th Ave.
Glendale, AZ 85301

623/939-4690, tel
602/955-3146, fax
888/822-4999, toll-free

December 3, 2018

Colin Duffy
Innovex Environmental Management, Inc
16310 80th St NE, Suite 300
Redmond, WA 98052

Dear Colin:

This is a report on the equipment, procedures, and results of the geophysical survey performed at the Montlake Market/Gas Station, 2625 Montlake Pl E, Seattle, WA. The survey was performed on December 3, 2018.

The purpose of the survey was to clear boring locations and survey the parking lot for possible UST's.

The site is currently an operating food market and gas station. A temporary Christmas tree lot occupies the west edge of the market parking lot.

The equipment available for the survey included but was not limited to a GSSI Profiler 400 multi-frequency electromagnetic (EM) profiler, GSSI UtilityScan ground penetrating radar (GPR) with 350 MHz antenna, Schonstedt GA-52 magnetic locator (MAG), and pipe/cable locators.

The EM produces a sinusoidal signal that is transmitted into the subsurface. This transmitted signal induces a flow of electrical current into the soil. These currents in turn induce a secondary electromagnetic field. The presence or absence of metallic objects and voids affects this secondary field. The secondary electromagnetic field is measured, collected, interpreted and stored for later processing.

The GPR utilizes high frequency radio waves to probe the subsurface. A radio wave is emitted from the antenna and travels through the soil, if there is an anomaly below the antenna; the radio wave is reflected back. The data that is collected is displayed both in real time, through a color display. The data appears as a slice of the subsurface. The top of the page is the surface of the survey line while the farther down the page you go,

the depth increases. The survey line start point is the left side of the page next to the vertical scale, in inches. The end of the survey line is the right side of the page. The depth of signal penetration for this antenna is approximately 12 feet, in ideal conditions. The actual signal penetration for this site is less than 5 feet. Normal soil conditions appear in various shades of red and black. Conductive soils, where signal penetration ends, are represented by distorted greys. Potential anomalies are represented in whites and greys with clear vertical tendencies. Abrupt changes in elevation, surface material, and debris may cause the antenna to become elevated from the initial surface. Data collected at these points may show a large white color that would indicate a possible anomaly when no anomaly is present. Notations have been made when this has knowingly occurred.

The MAG measures the magnetic field simultaneously from two separate elevations within the same piece of equipment. A high pitch sound is emitted from the equipment when in the proximity of ferrous material. The equipment is carried over the survey area swung back and forth to cover as much area as possible in a reasonable time frame.

The EM was used in the parking lot of the market. The EM was carried over the surface and data was collected. The data was downloaded to a laptop computer and initial results were determined onsite. The EM data did not show any unknown anomalies that may represent an UST.

The pipe/cable locator was used to locate metallic utility lines around the proposed soil borings. Lines that were located were marked on the surface with marking paint.

The GPR was used on the boring locations after the pipe/cable locators were used to locate utility lines. The GPR was pushed along the ground and data was collect continuously. The data was analyzed onsite. The GPR did confirm the utility lines previously marked with the pipe/cable locators. Several non-metallic drain lines were visible in the GPR data and were marked on the surface with marking paint. The GPR detected possible product lines in the area of soil boring B-9. The lines were marked on the surface with marking paint.

The MAG was carried over the EM survey area in the parking lot. The MAG did not register any unknown metallic objects.

UST's, septic systems, environmental and construction hazards may be present on the sites and not detected if they were not present in the survey

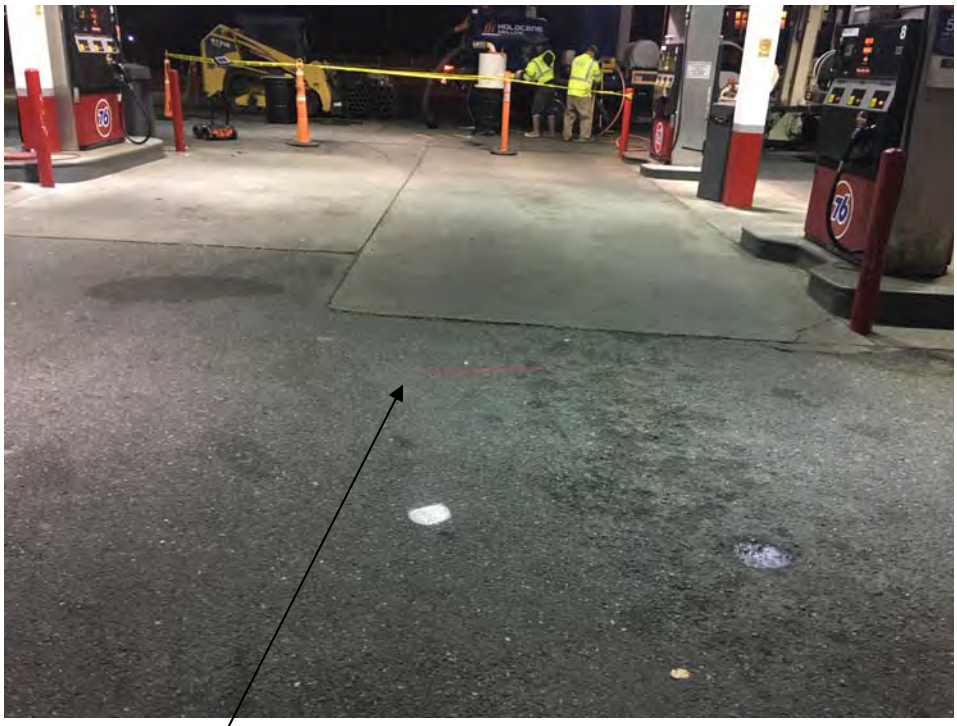
areas, above ground interference, deeper than the equipment is capable of detecting, tanks were removed, or the tanks were collapsed and filled with native soils.

If you have any questions, please feel free to call me.

Respectfully,

Richard A. Lund

SB B-9, possible product lines



SB B-10, electric lines

SB B-11, gas line

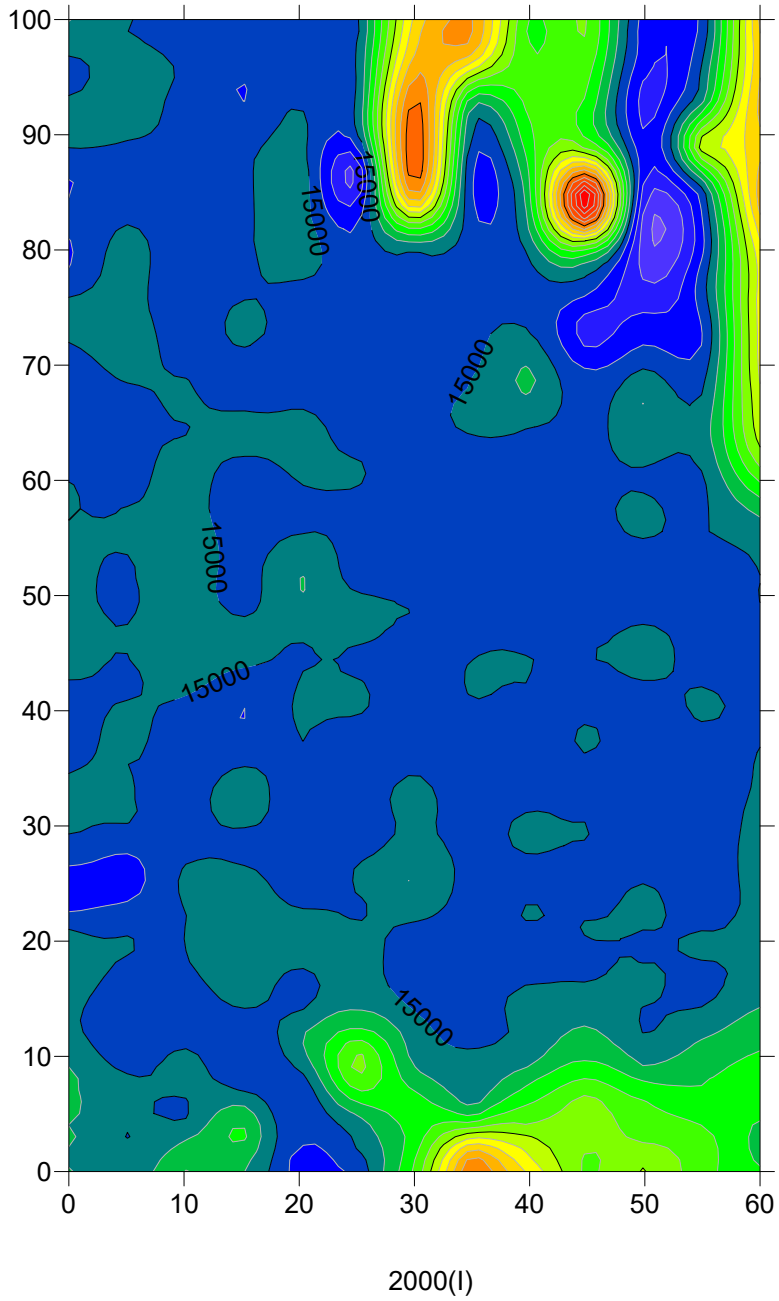
Original SB B-7, drain lines, electric lines

New SB B-7

SB B-8

SB B-6, drain lines

EM survey area, Market parking lot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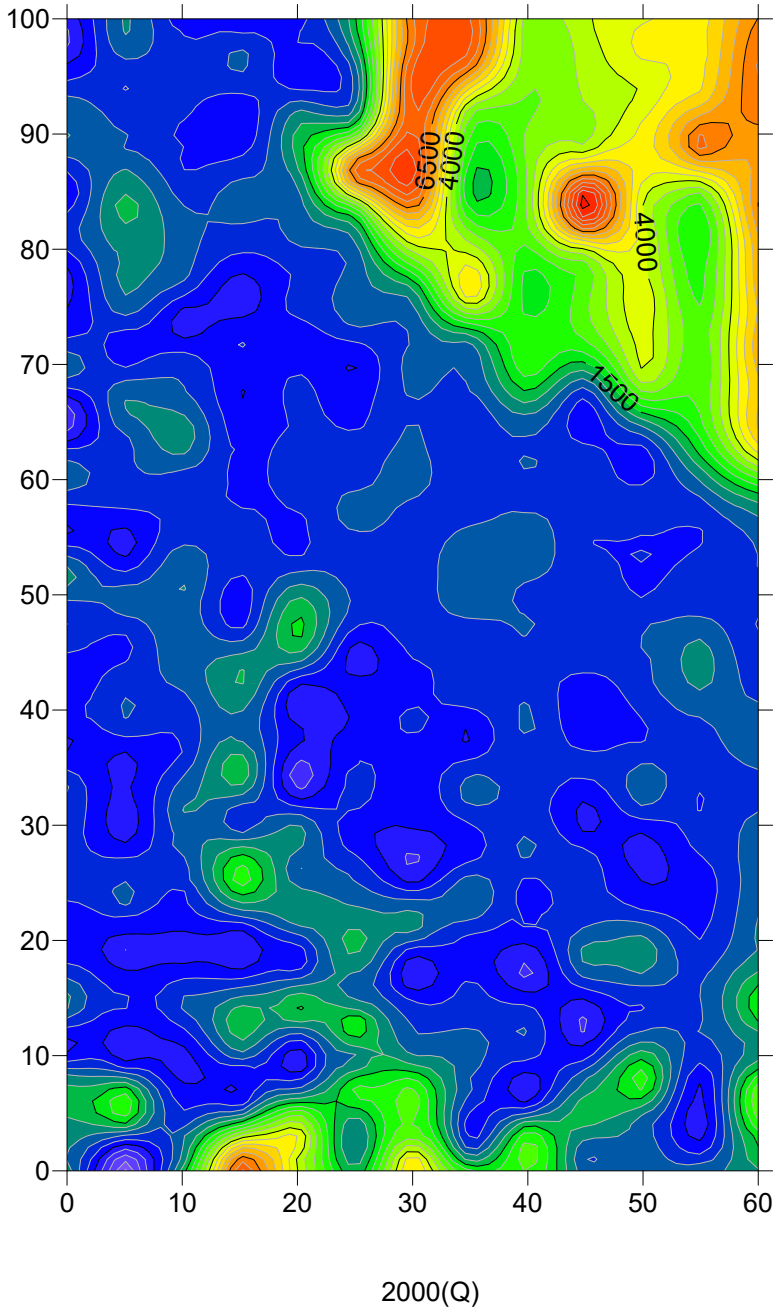
15000
15000
15000
15000
15000
15000
2000(I)

Parking Lot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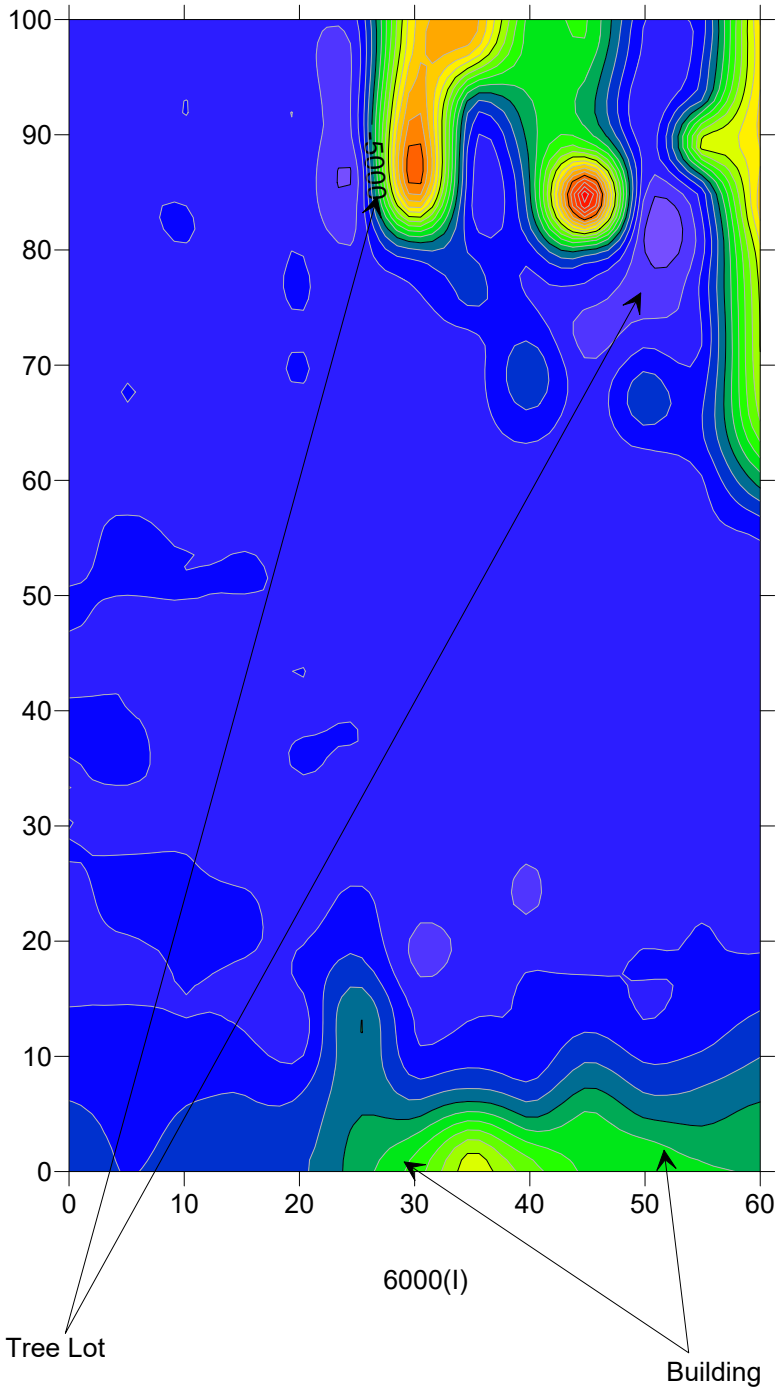
60
6500
4000
4000
1500
2000(Q)

Parking Lot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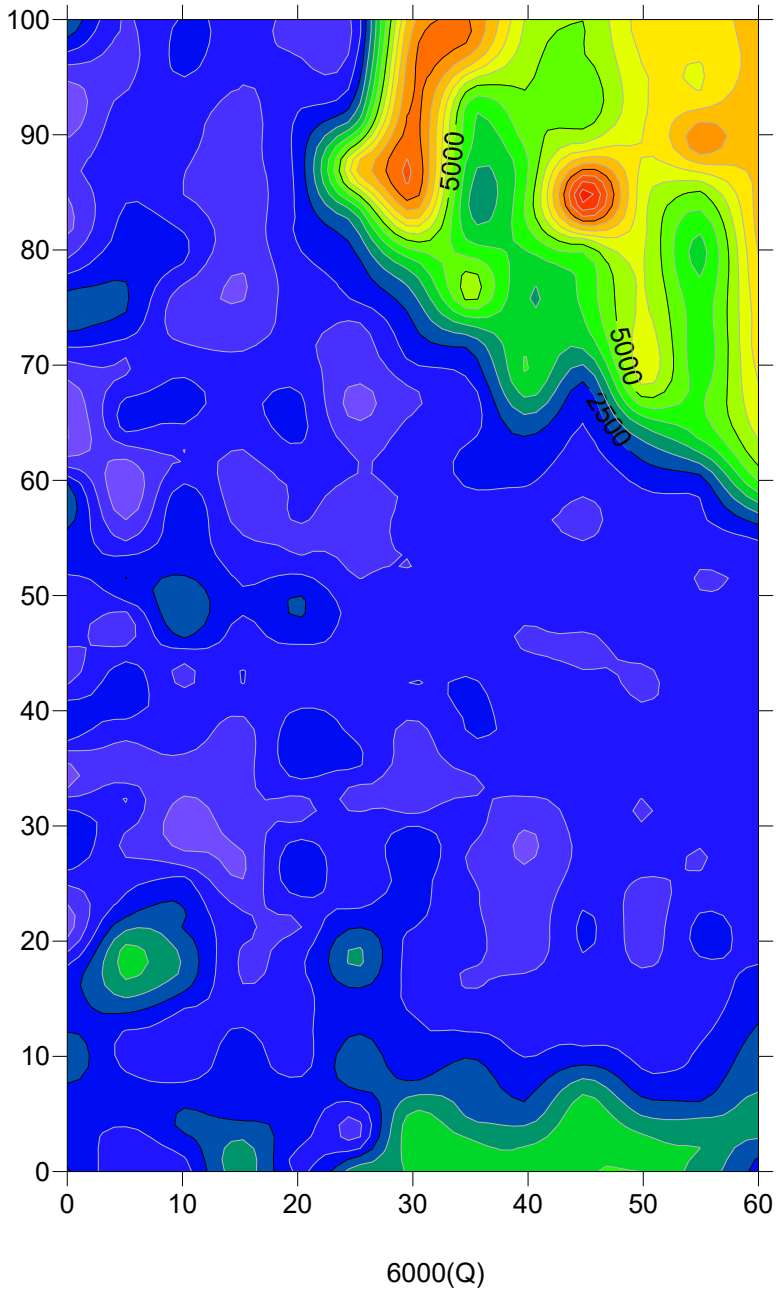
5000
6000(I)
Tree Lot
Building

Parking Lot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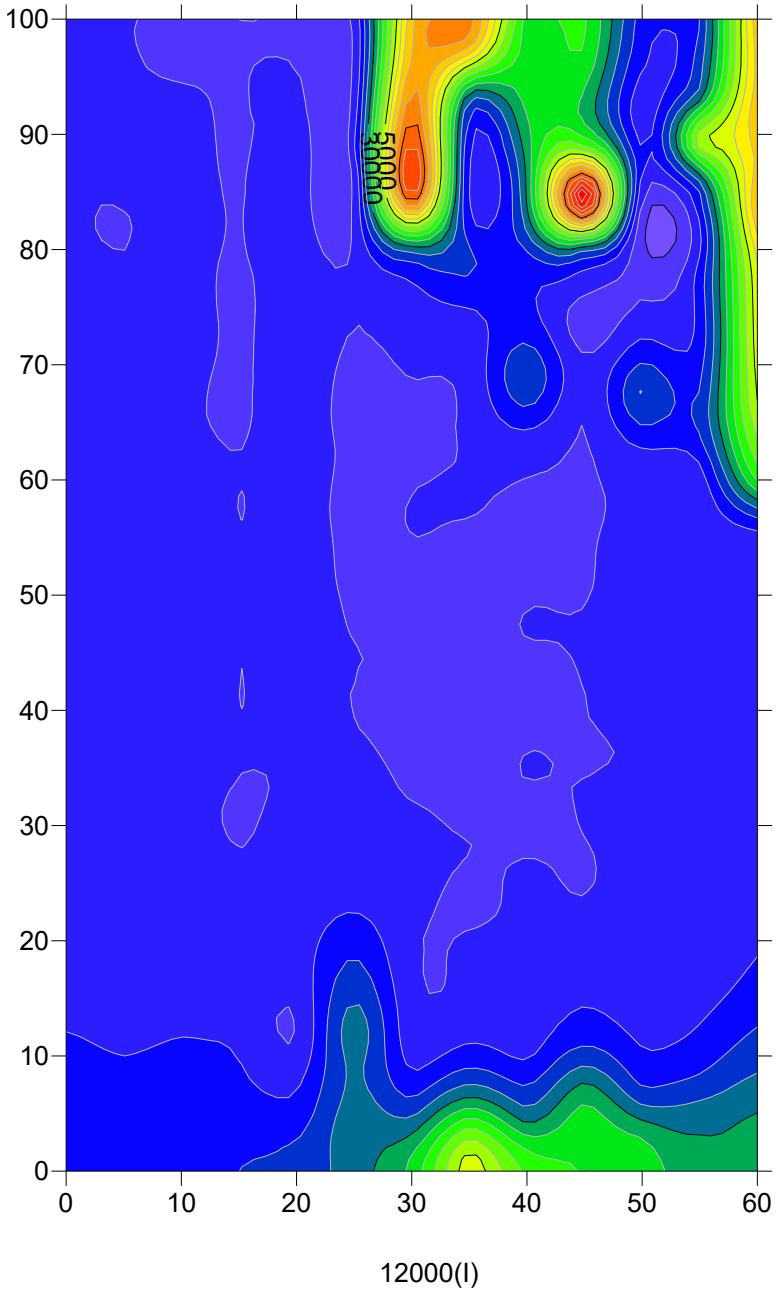
Parking Lot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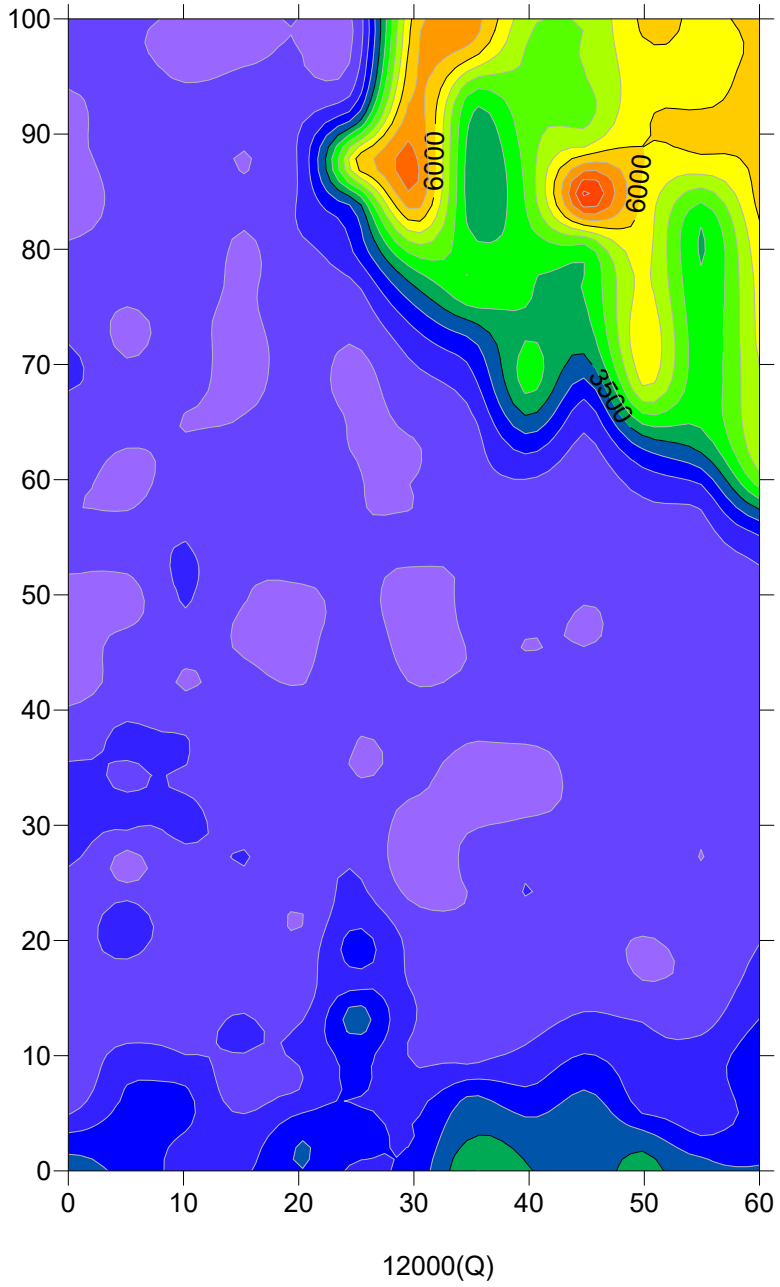
30000
50000

Parking Lot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12000(Q)
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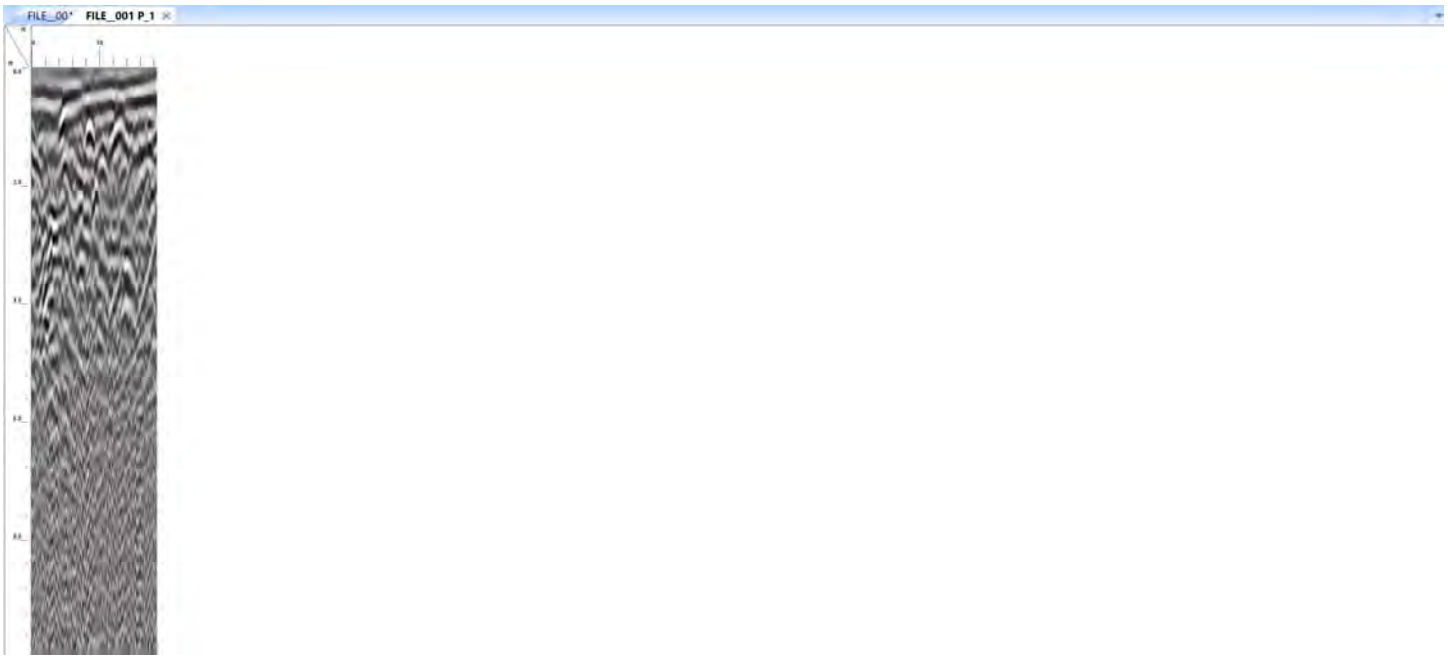
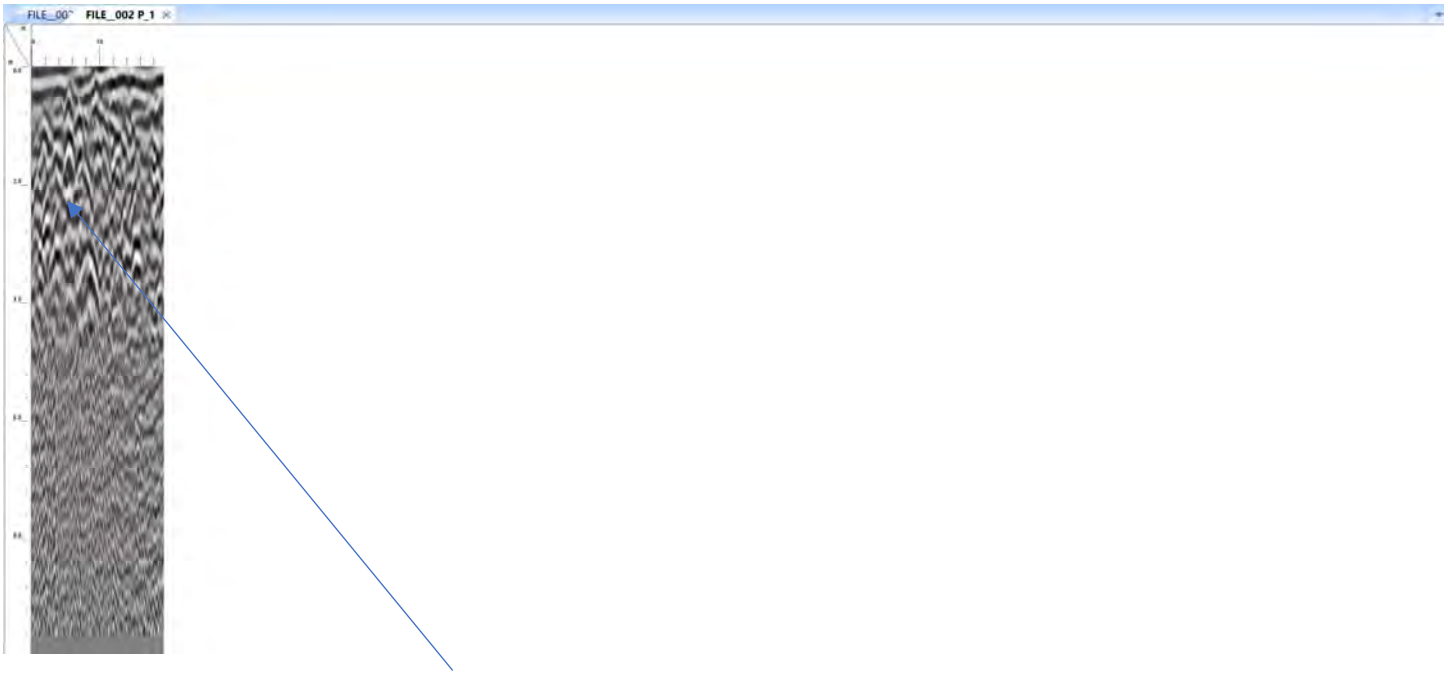
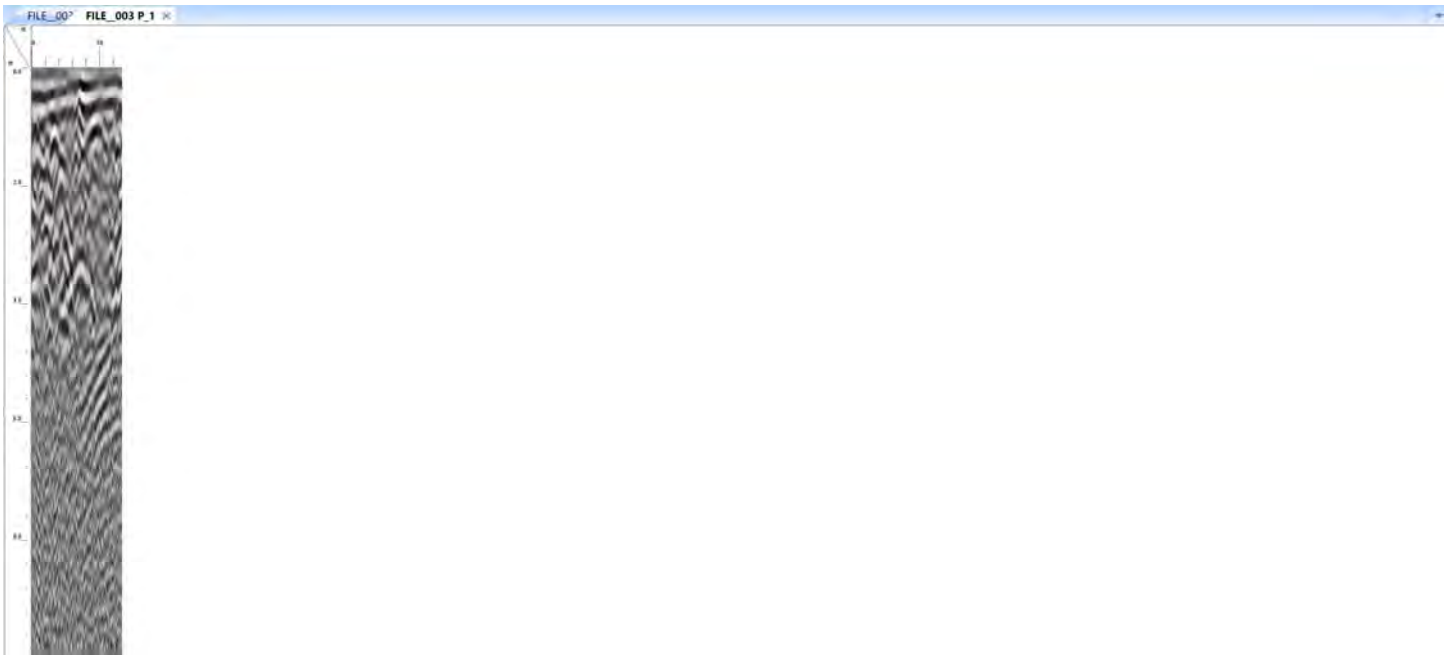
Parking Lot



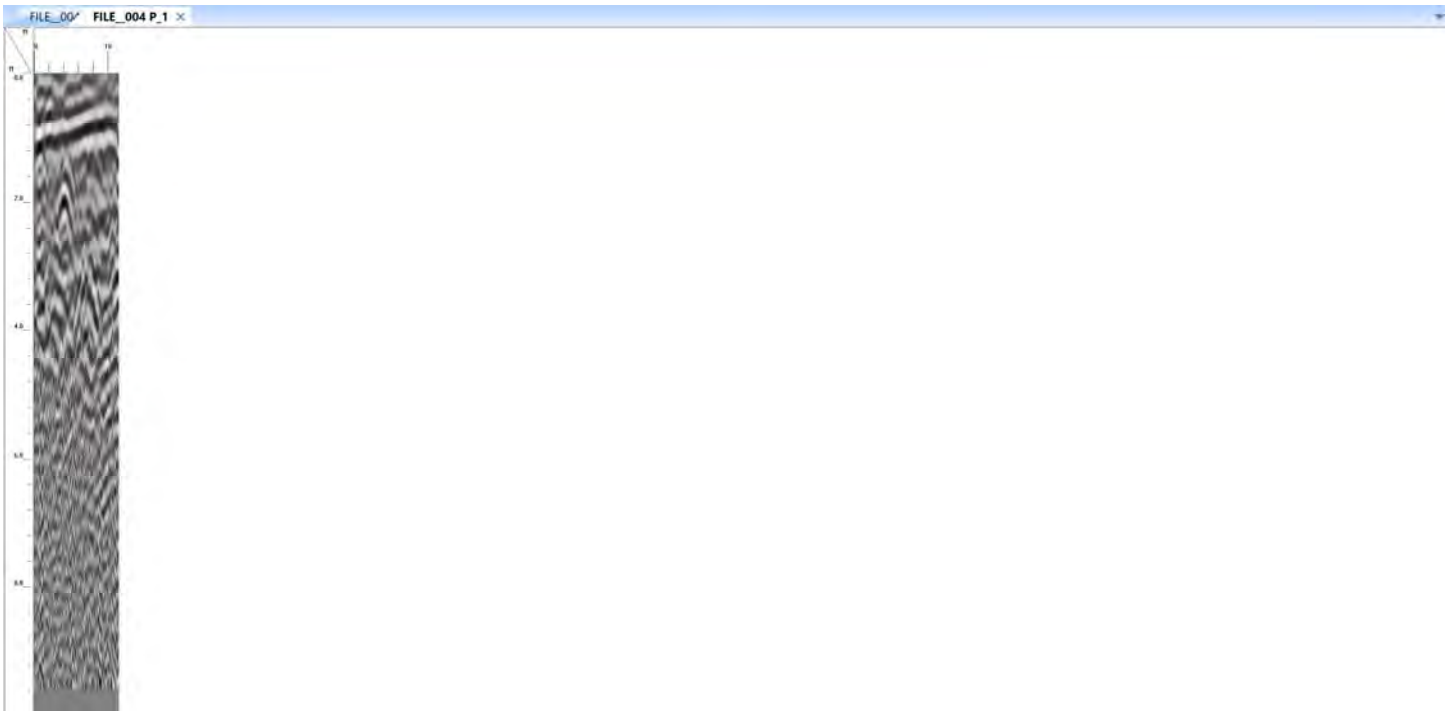
GPR Data: Soil Boring B-9, West to East



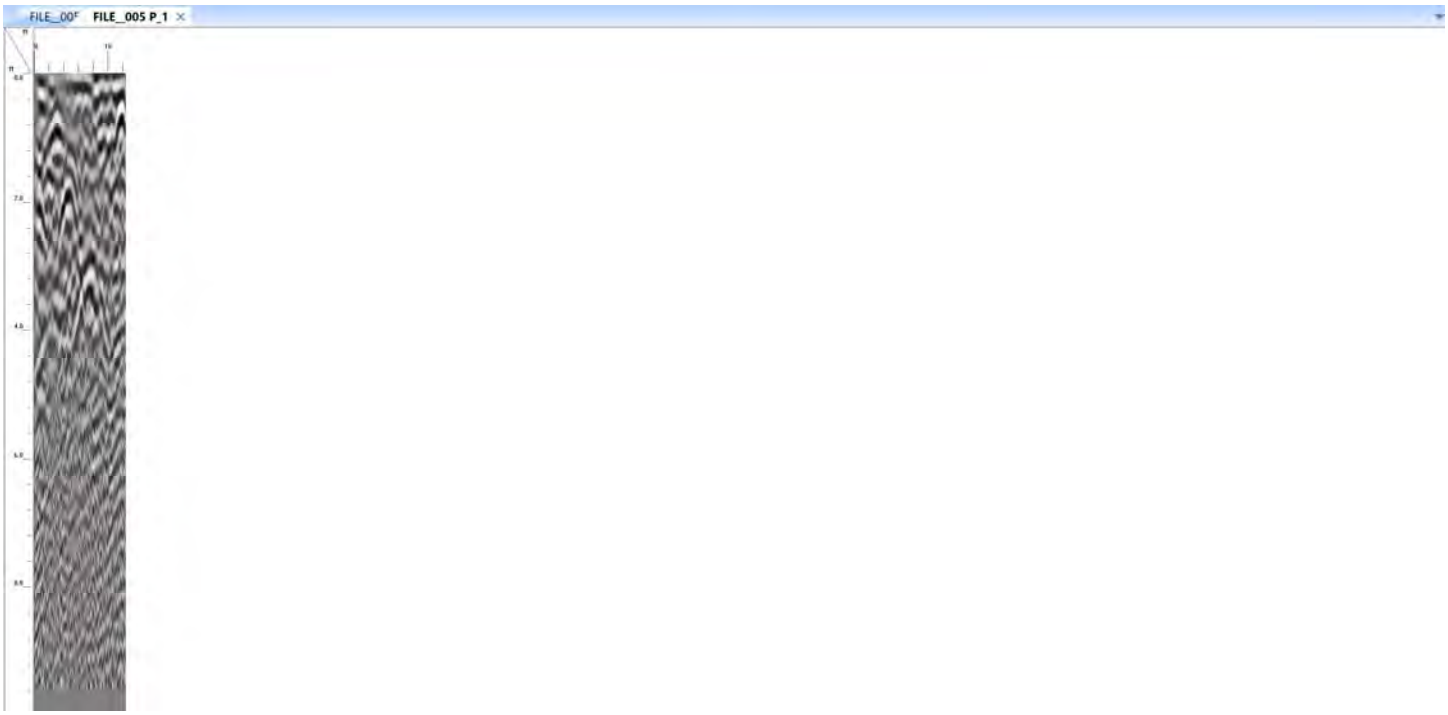
GPR Data: SB B-9, W-E, possible product lines



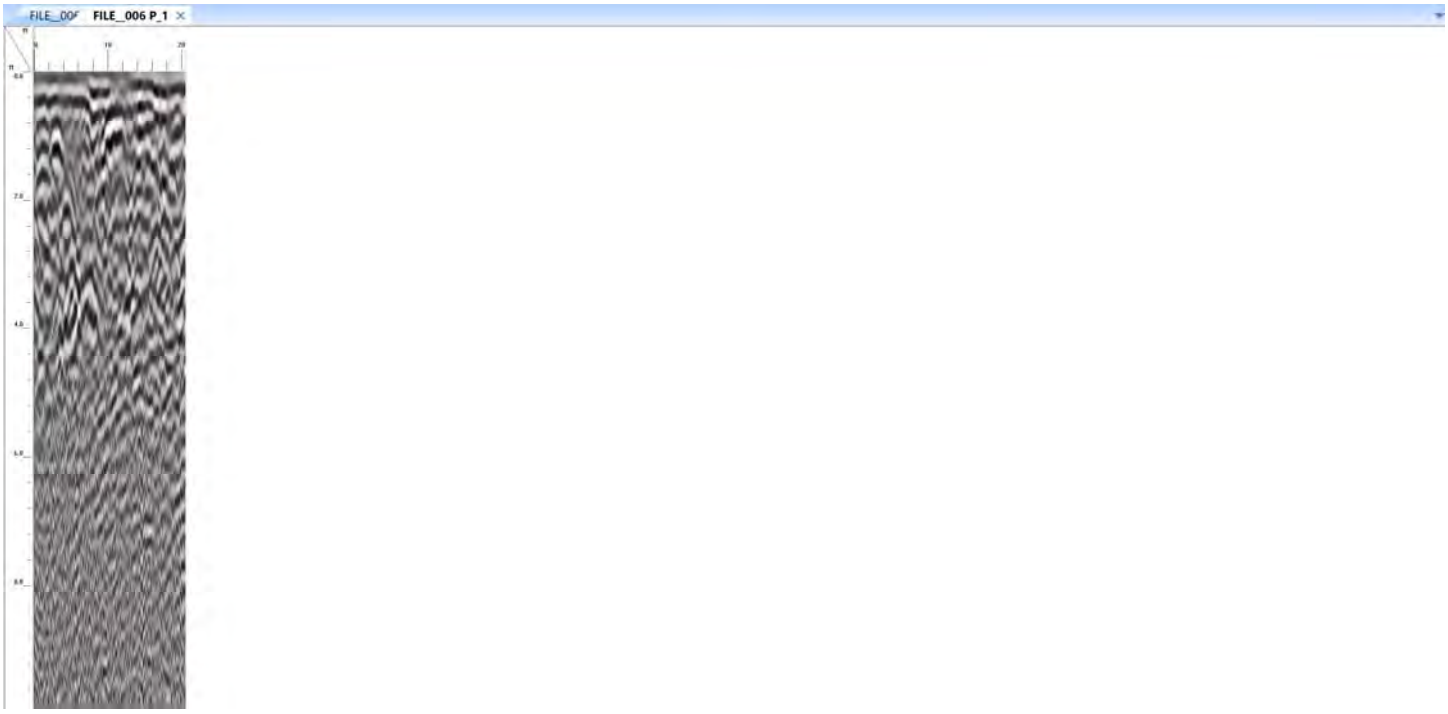
GPR Data: SB B-9, W-E



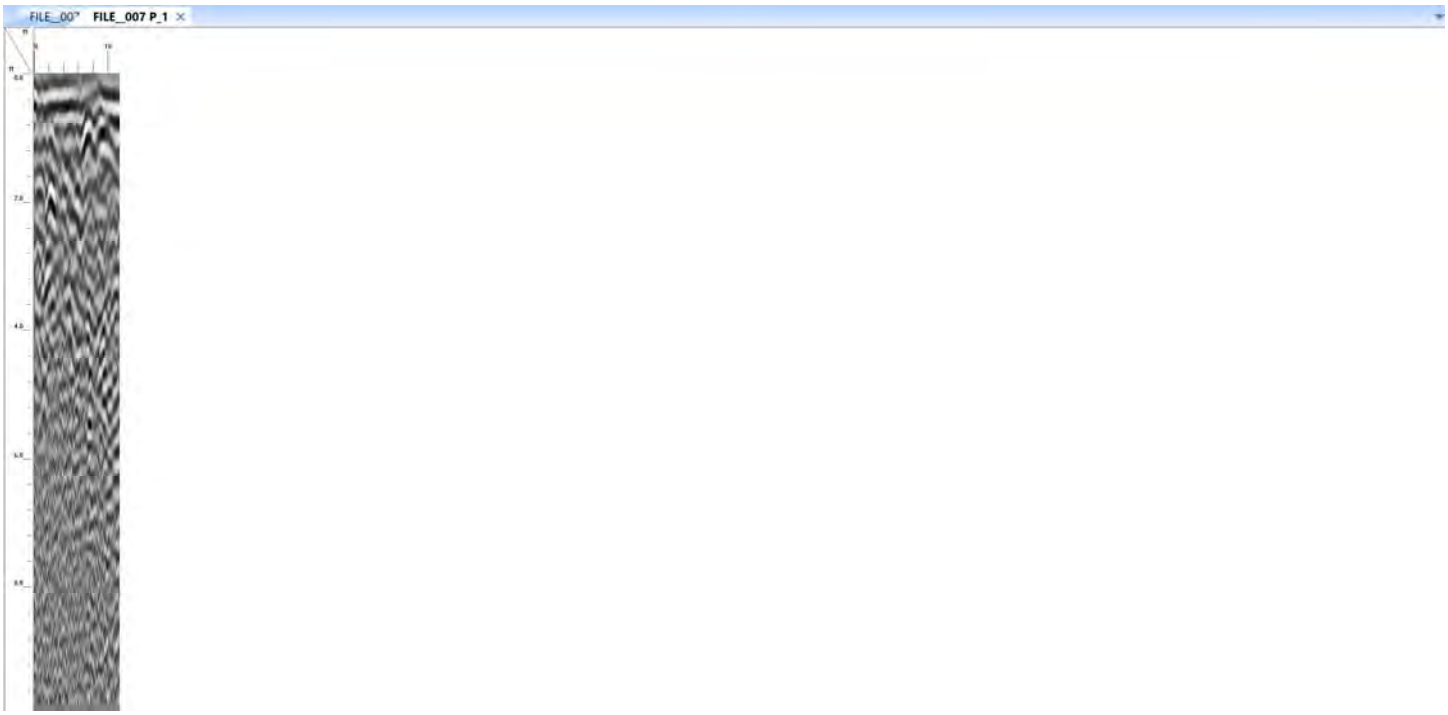
GPR Data: SB B-9, W-E



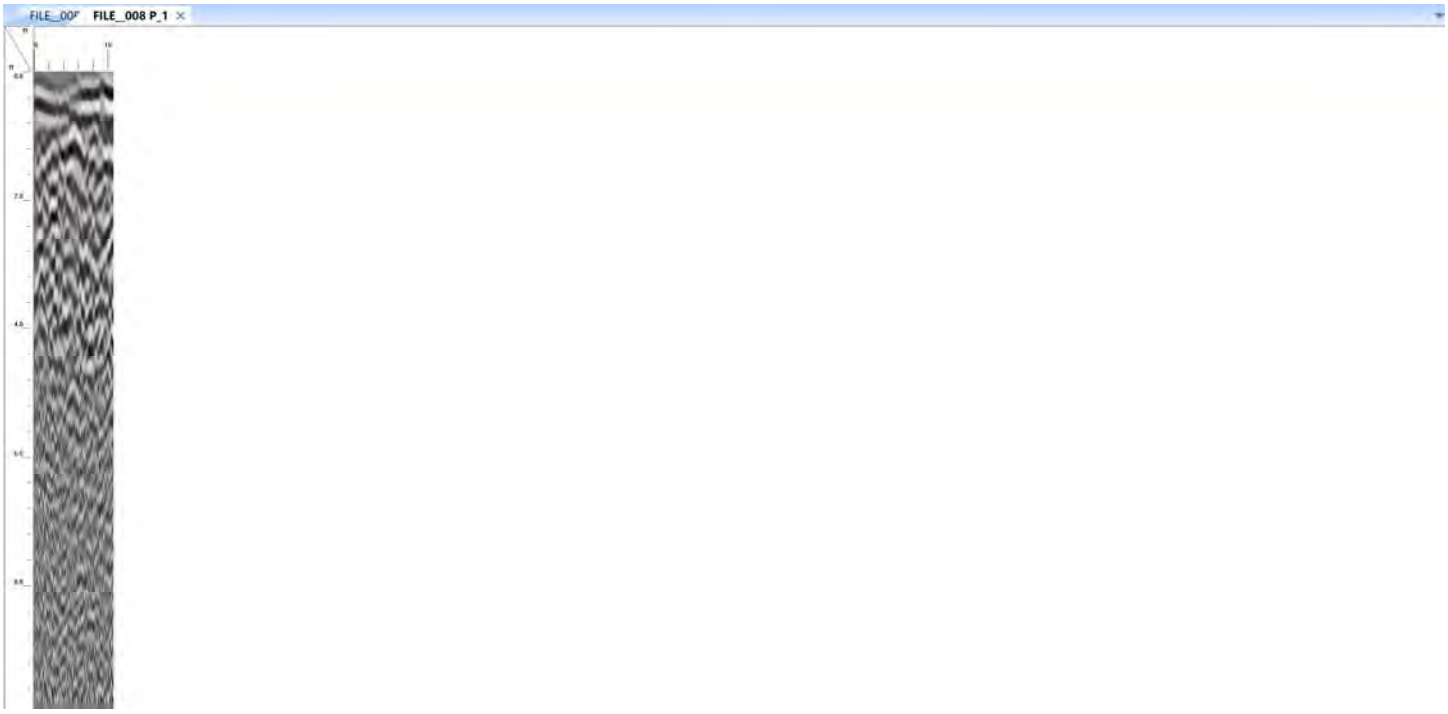
GPR Data: SB B-9, W-E



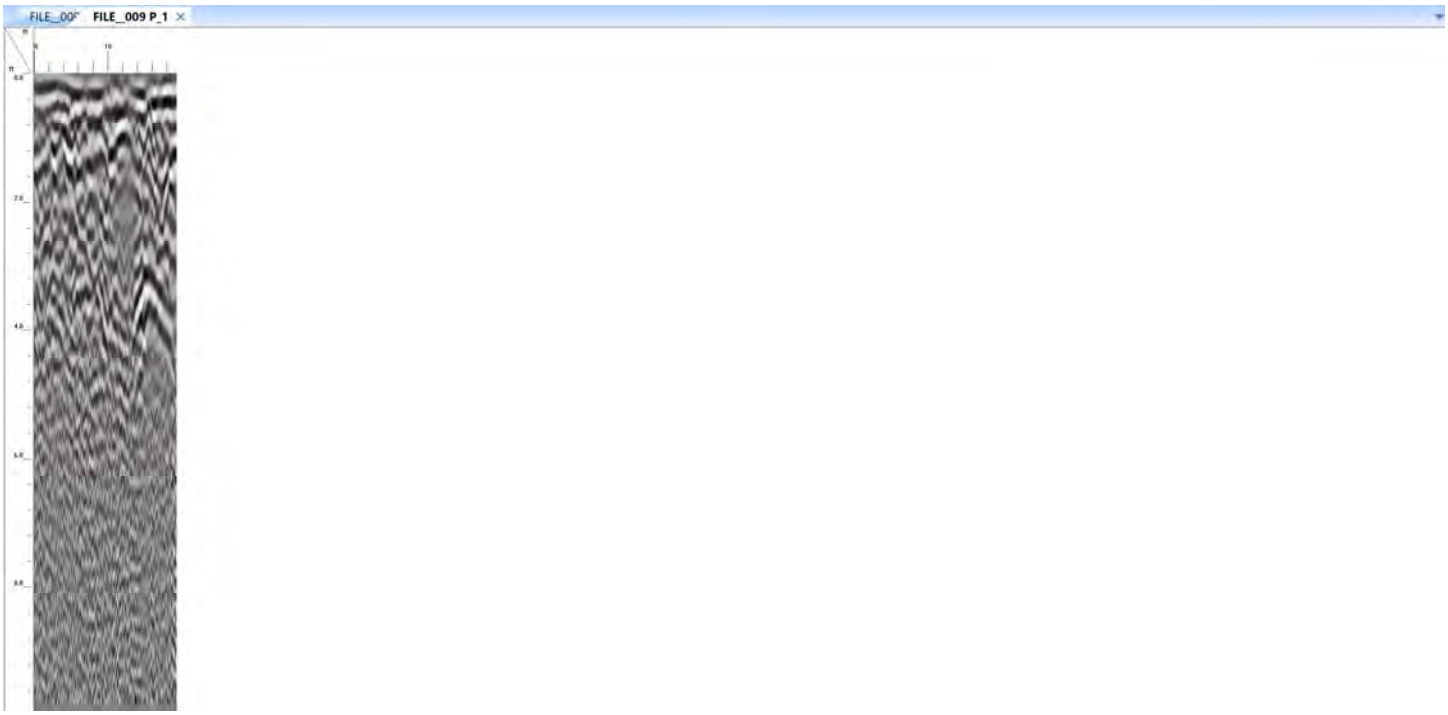
GPR Data: SB B-9, W-E



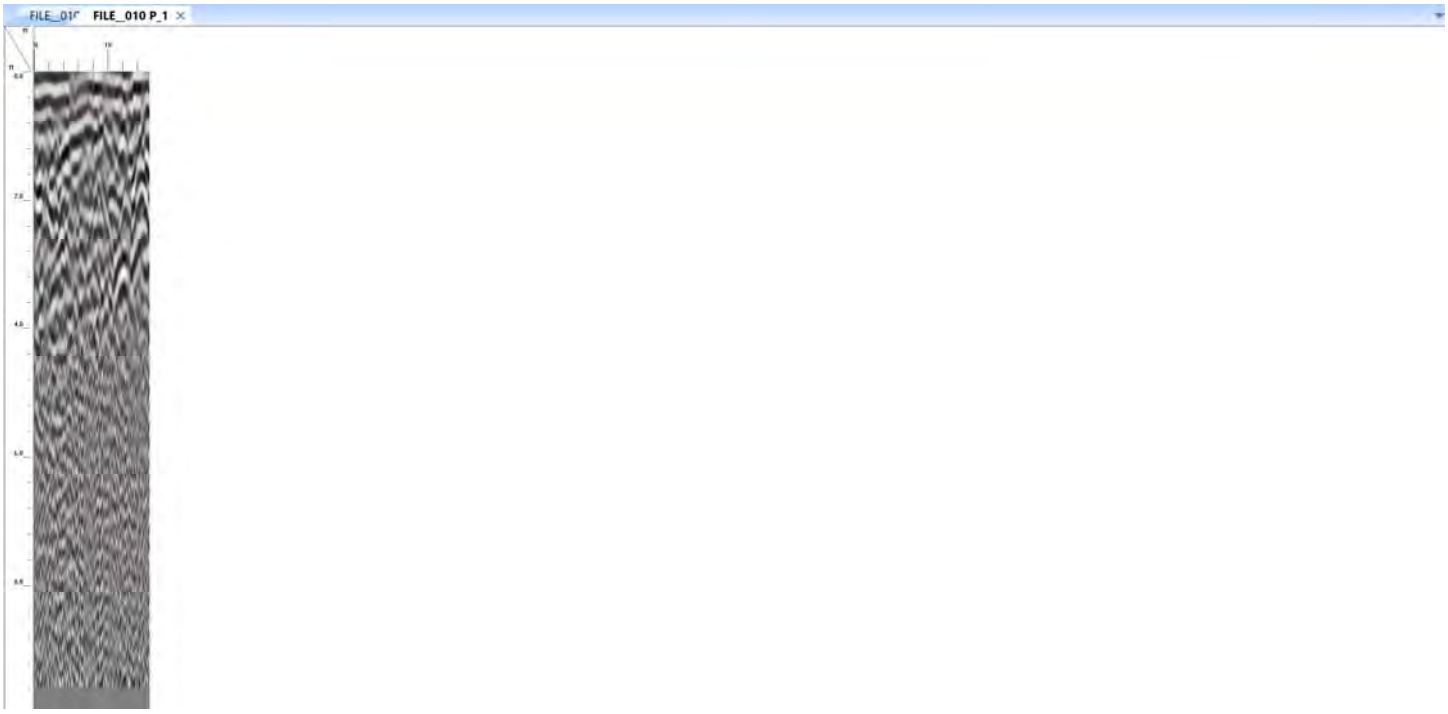
GPR Data: SB B-9, South to North



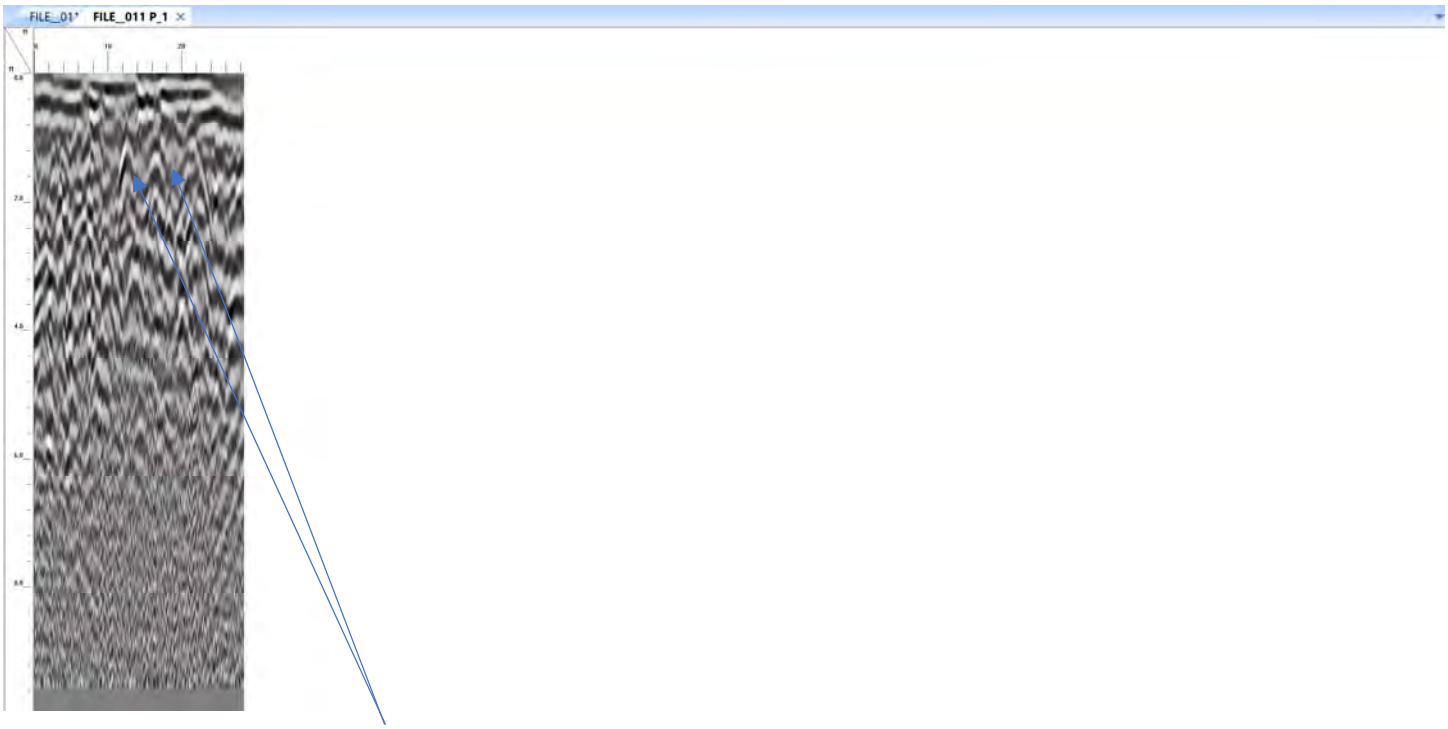
GPR Data: SB B-9, S-N



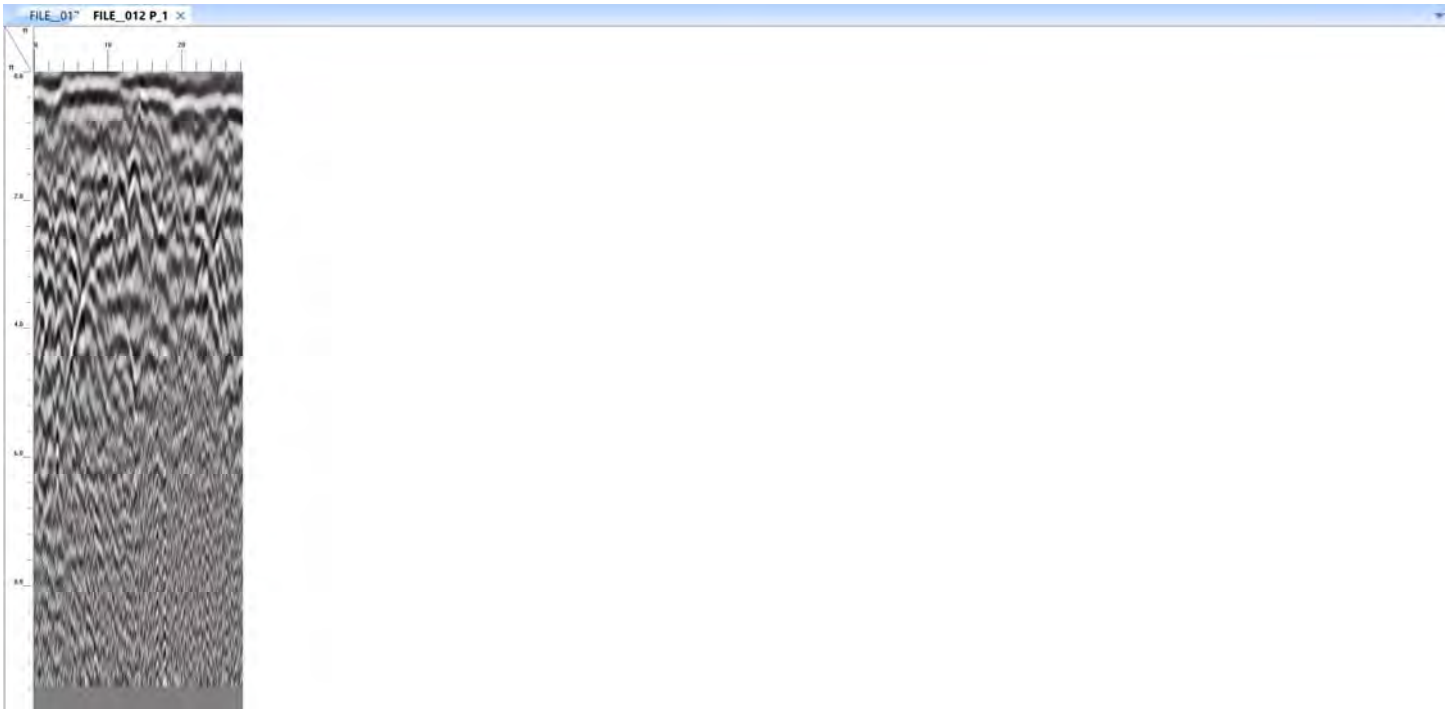
GPR Data: SB B-9, E-W



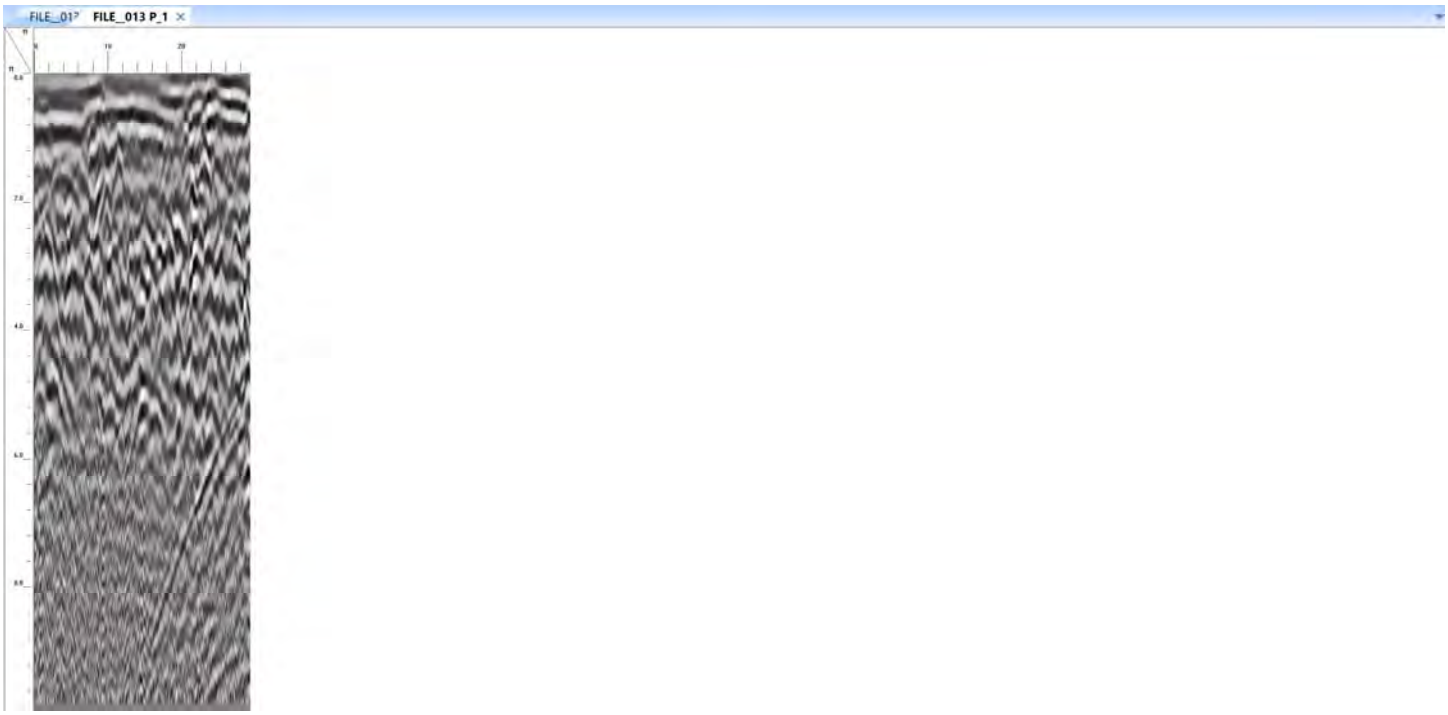
GPR Data: SB B-9, E-W



GPR Data: SB B-11, N-S, electric lines



GPR Data: SB B-11, N-S



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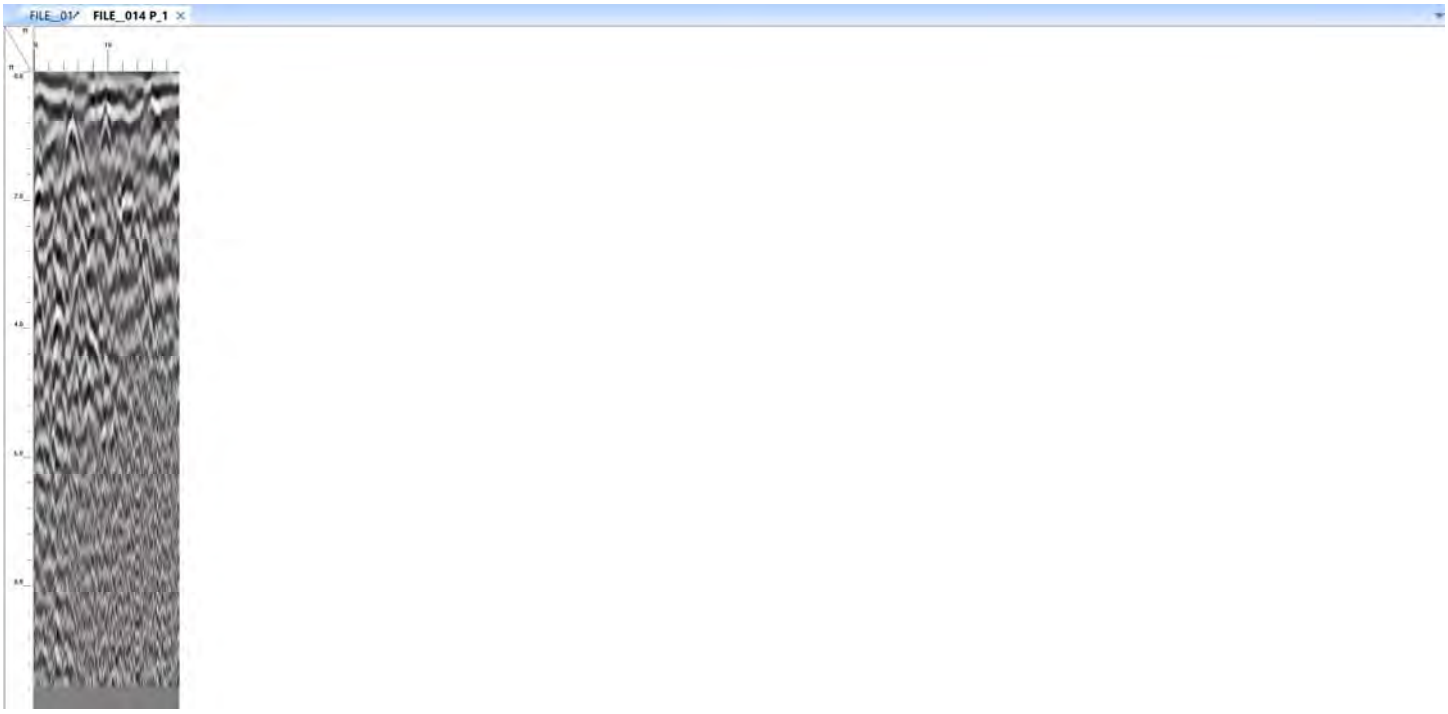

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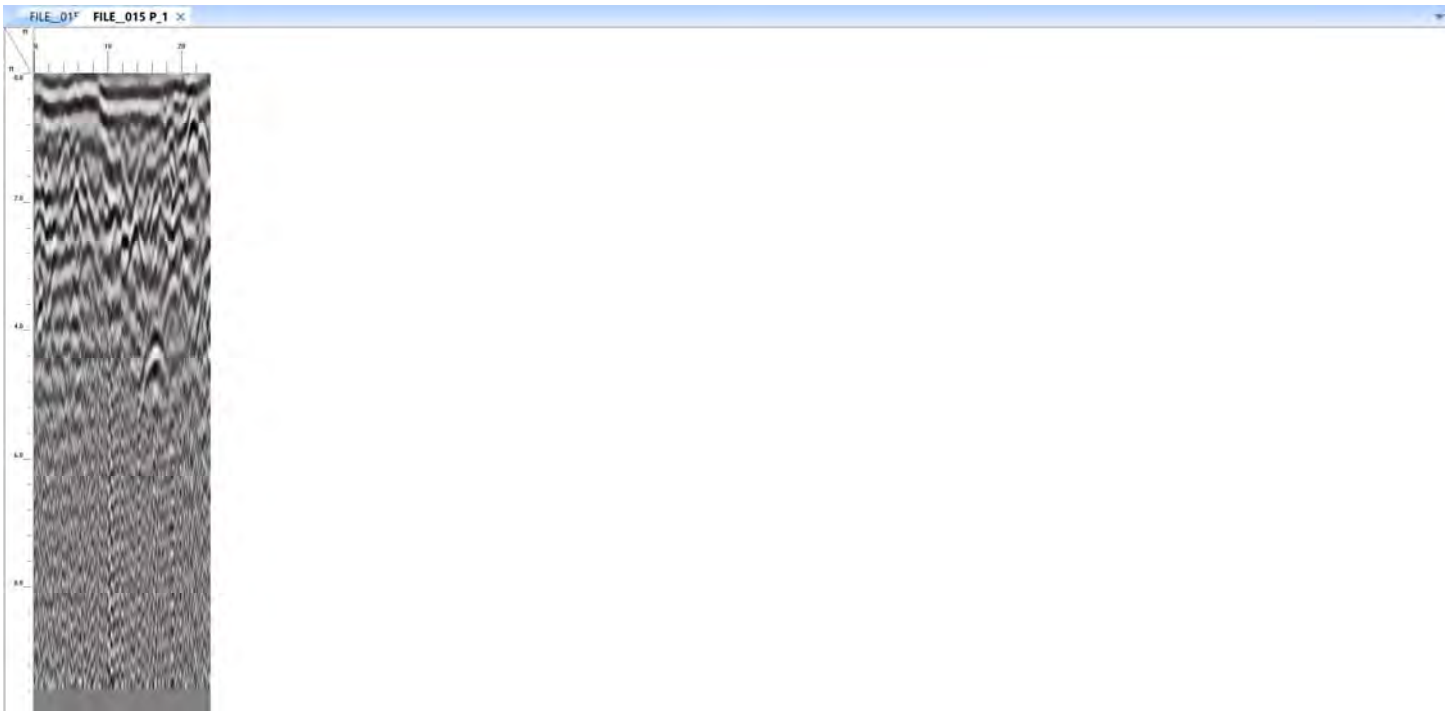

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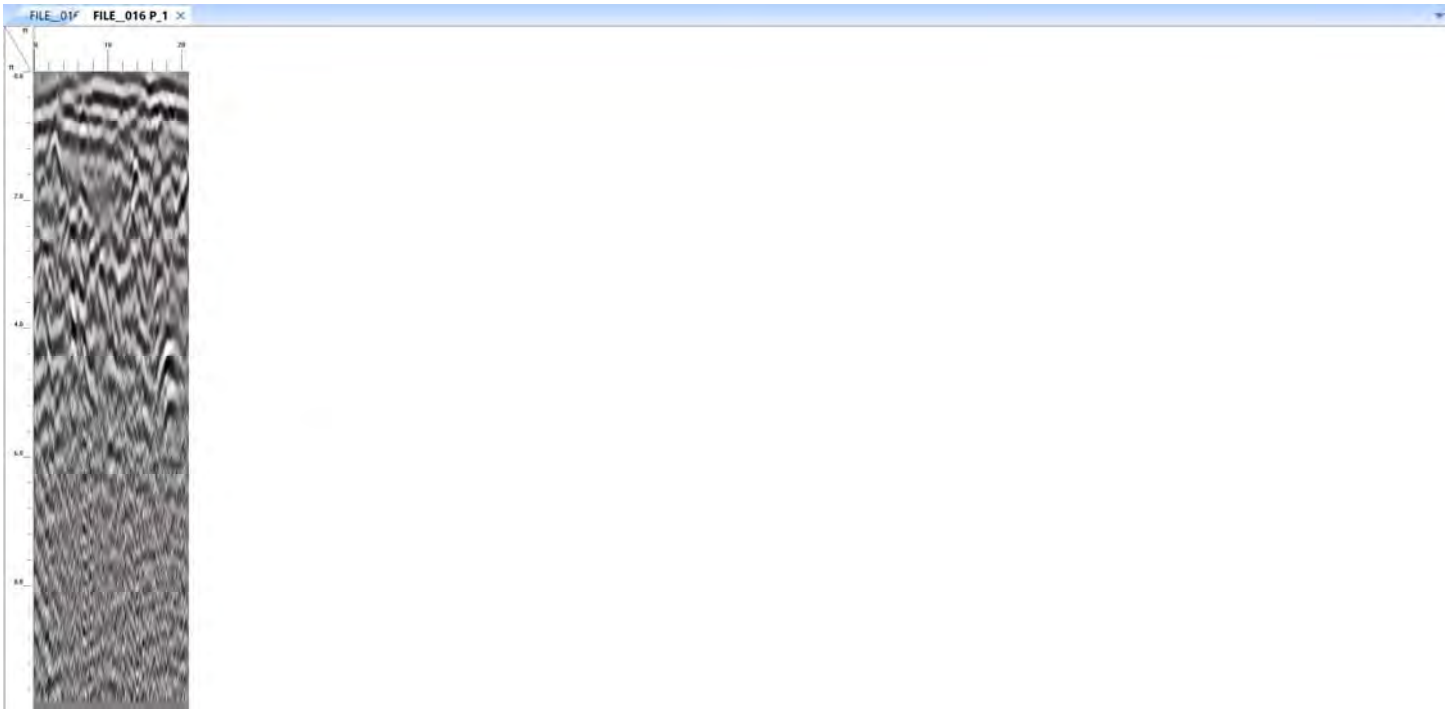
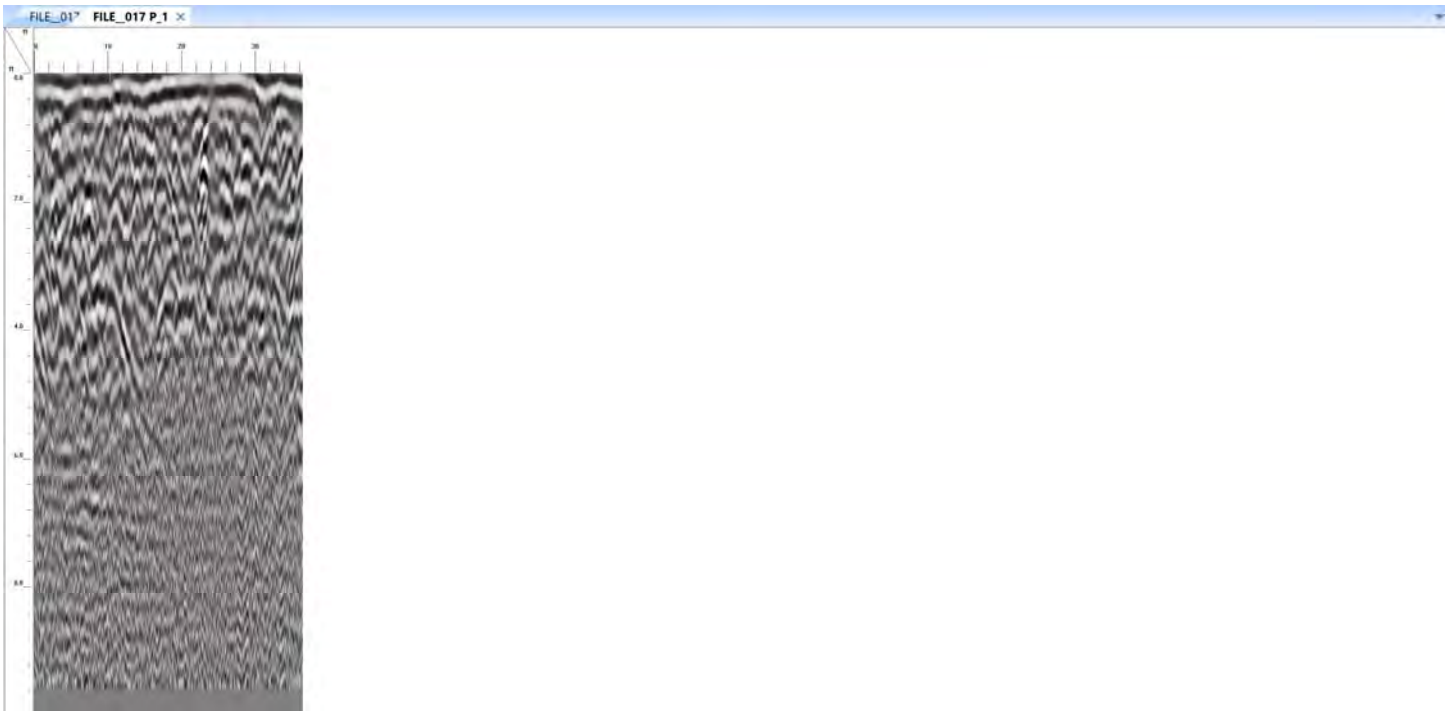
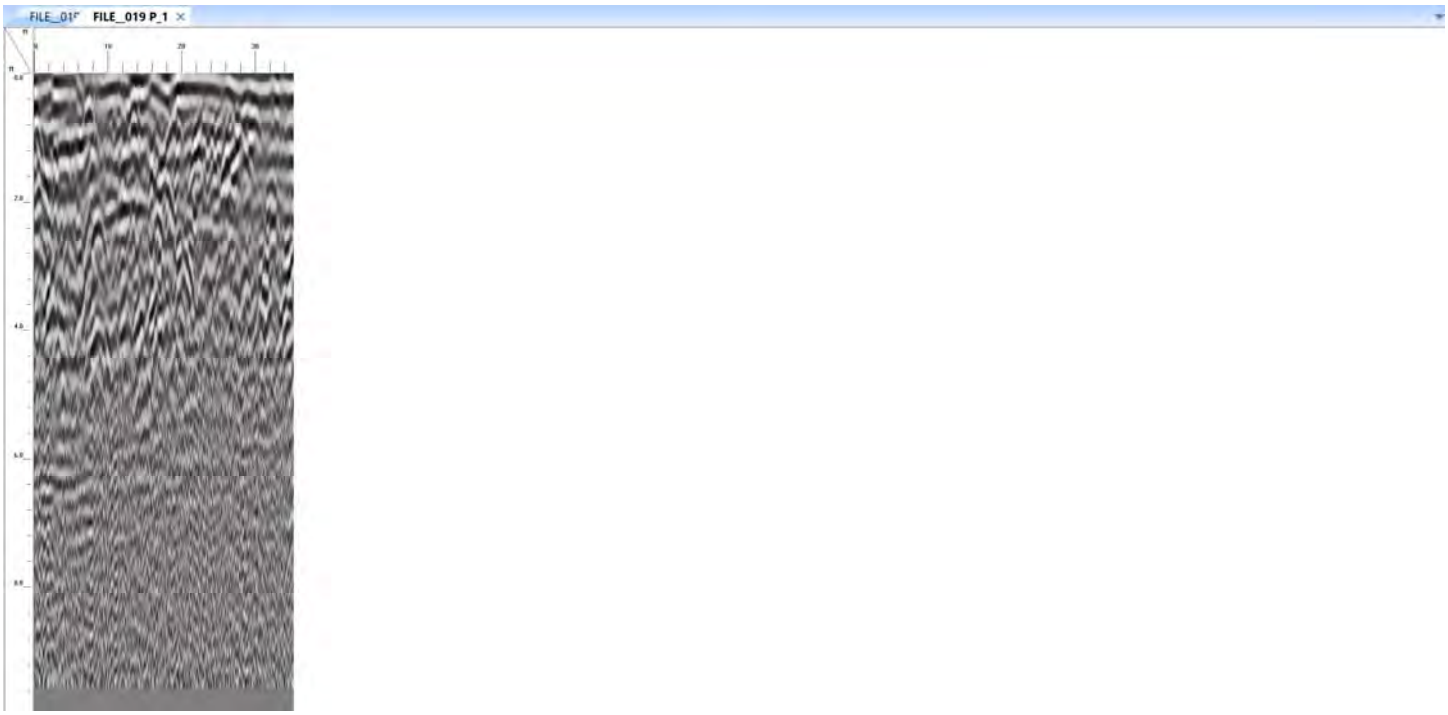


GPR Data: SB B-11, W-E



GPR Data: SB B-10, W-E

GPR Data: SB B-10, W-E, electric lines



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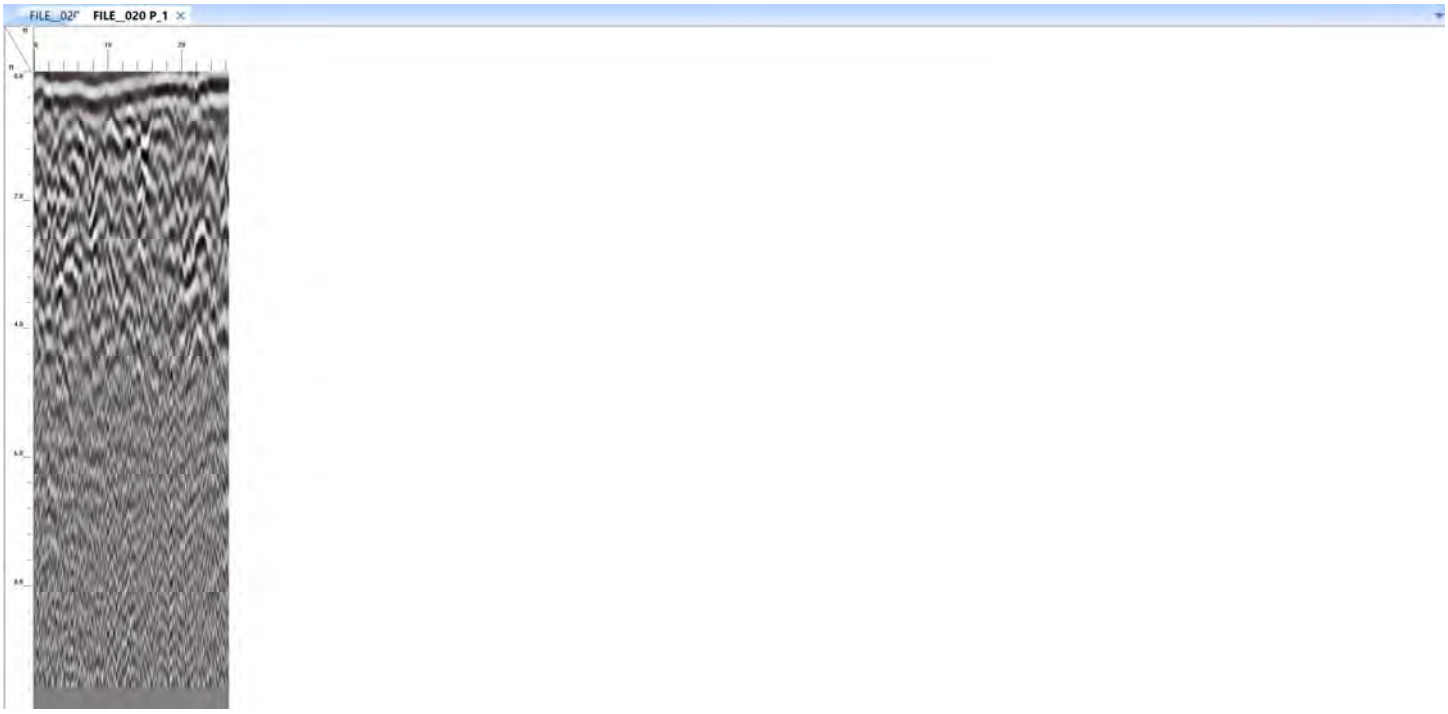
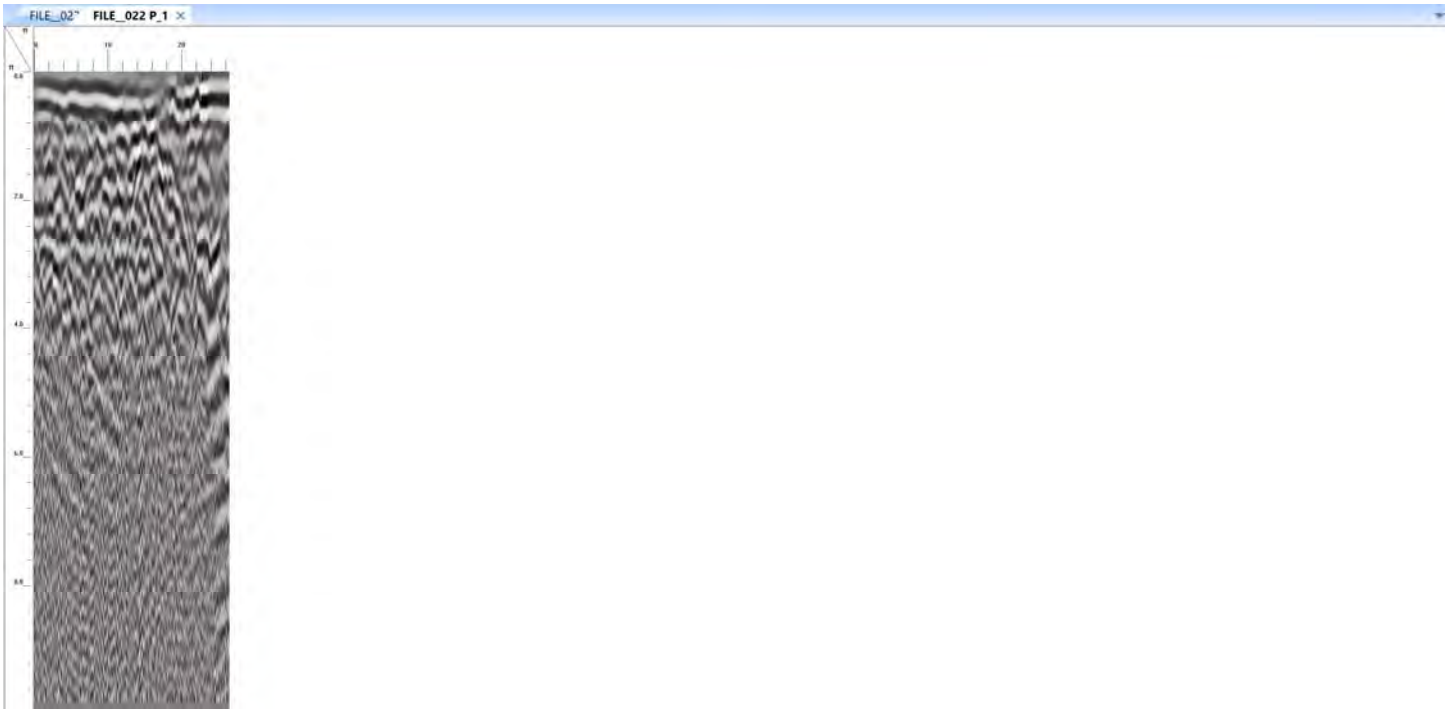
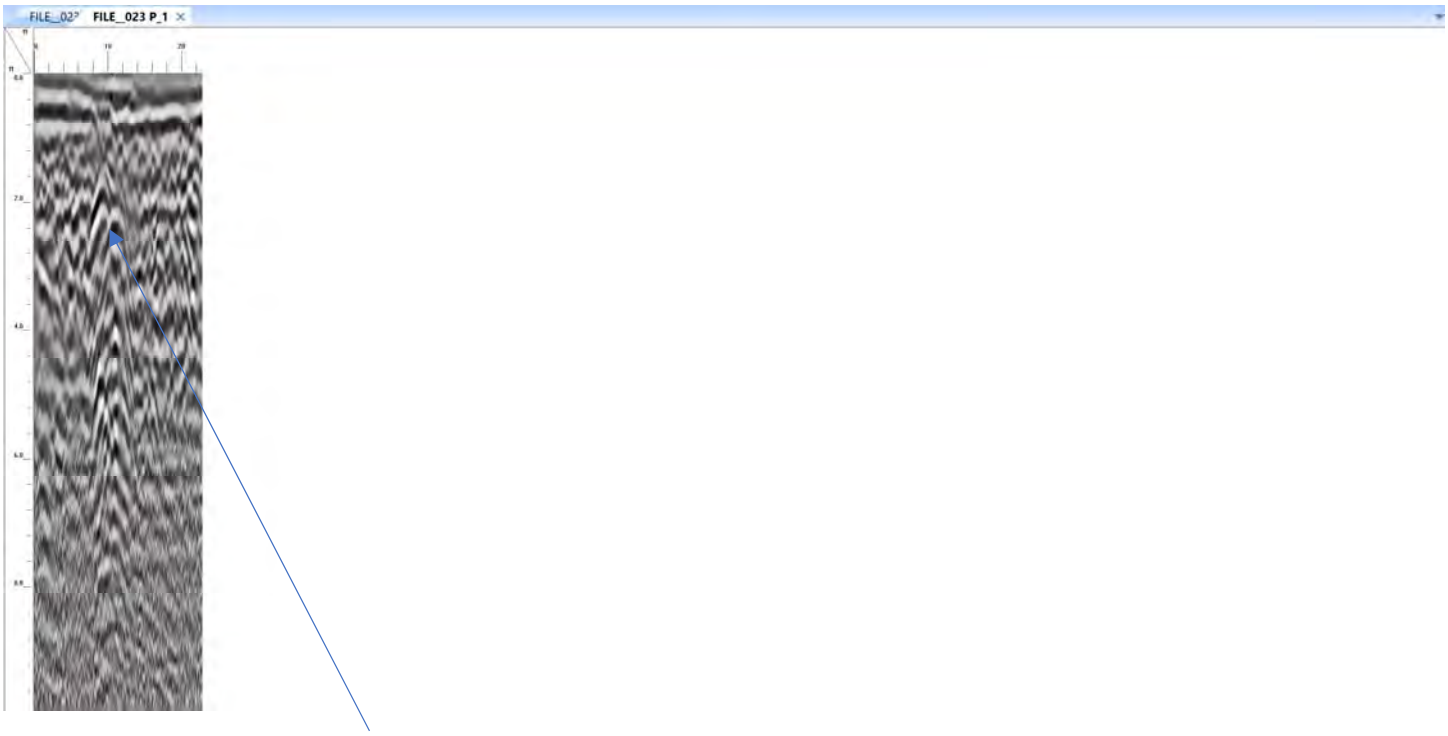


GPR Data: SB B-10, S-N

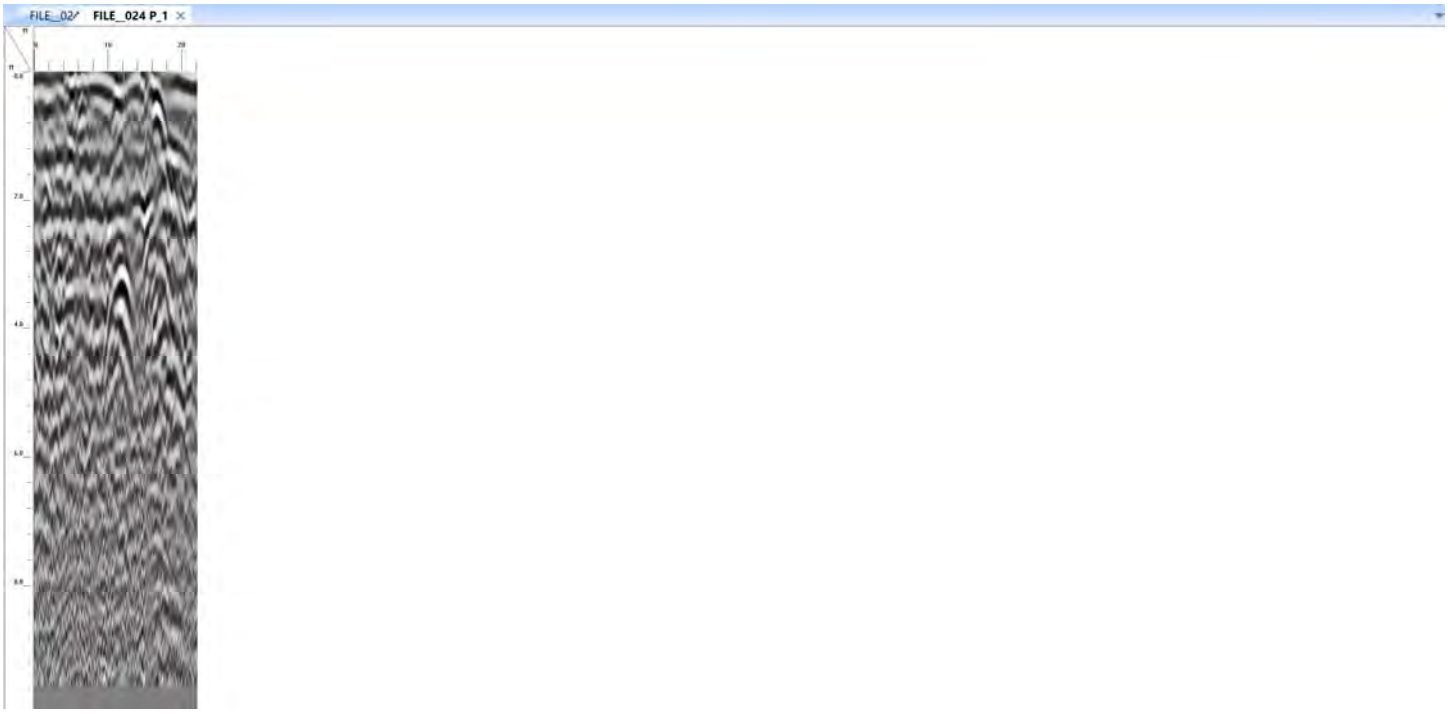
GPR Data: SB B-10, N-S, electric lines



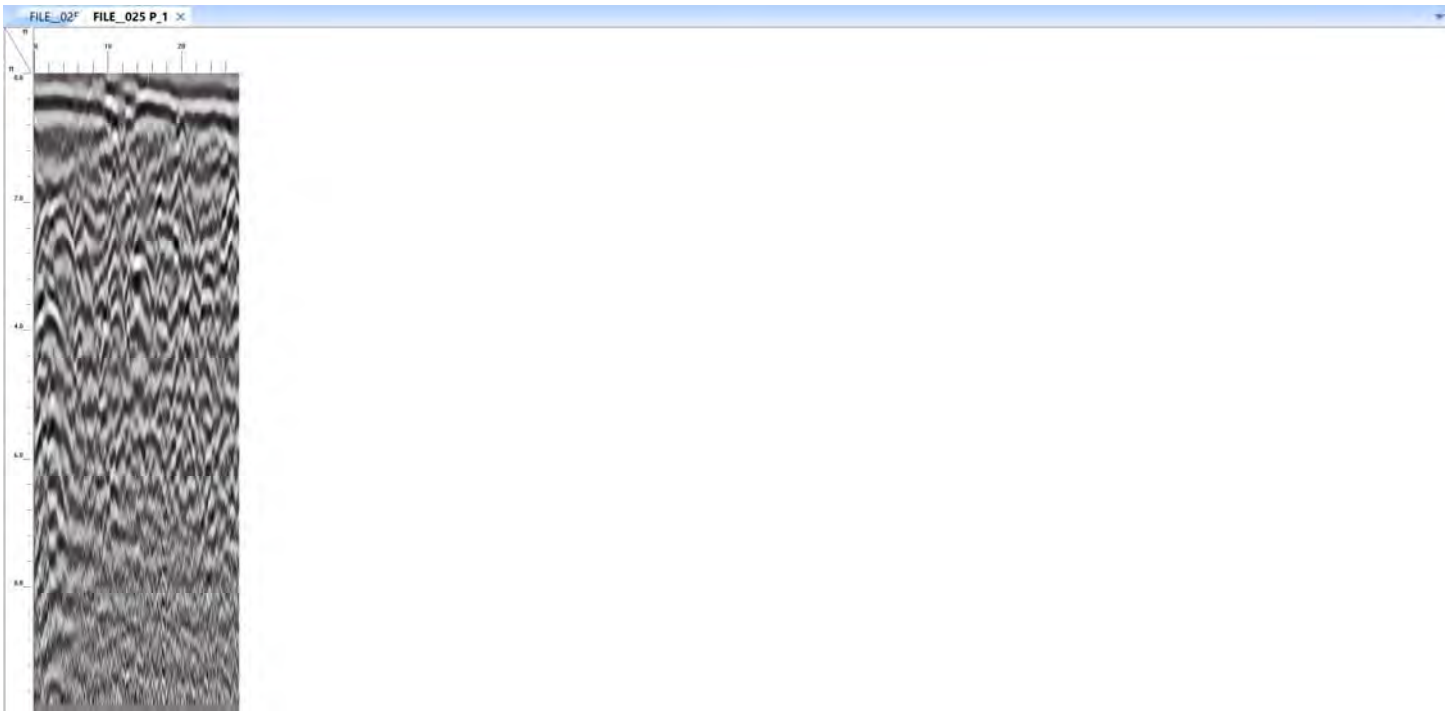
GPR Data: SB B-10, S-N



GPR Data: SB B-7, S-N, electric lines



GPR Data: SB B-7, N-S



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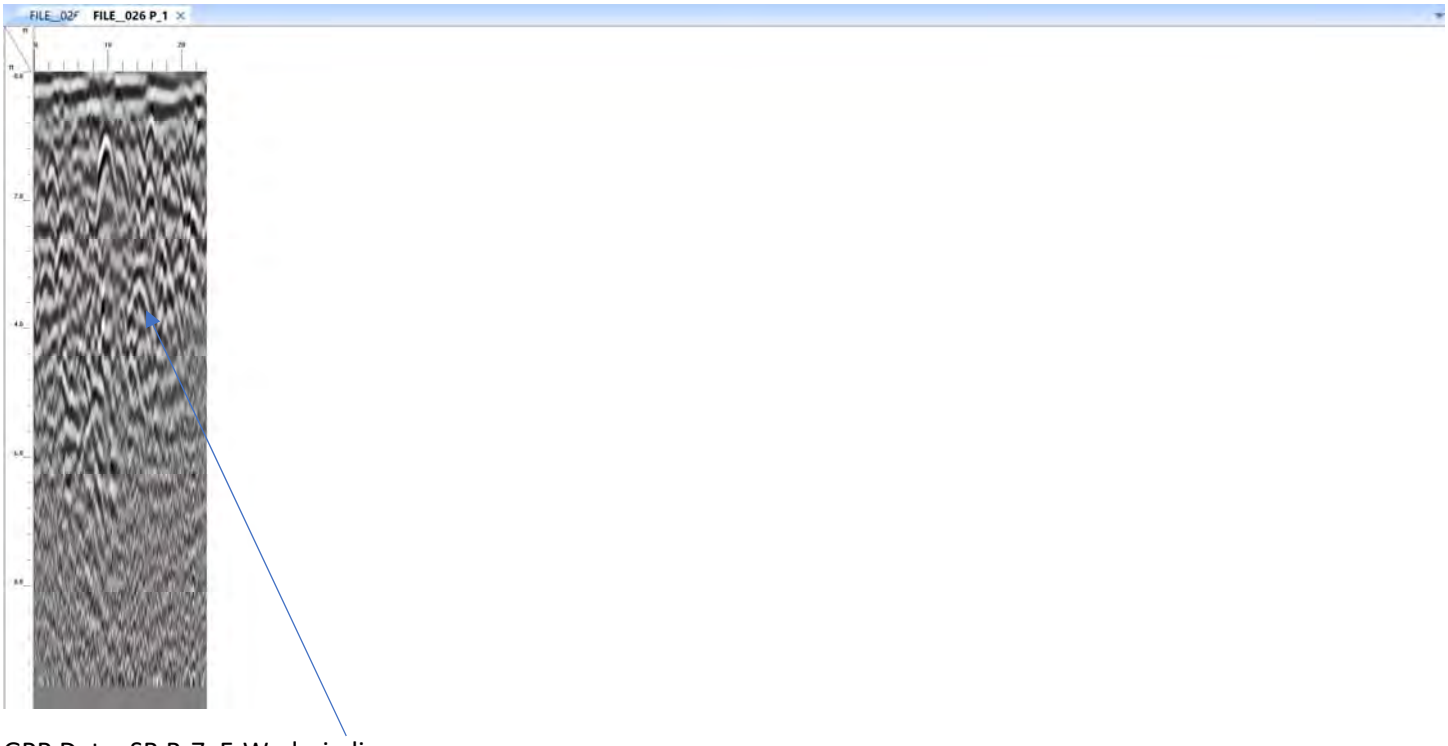
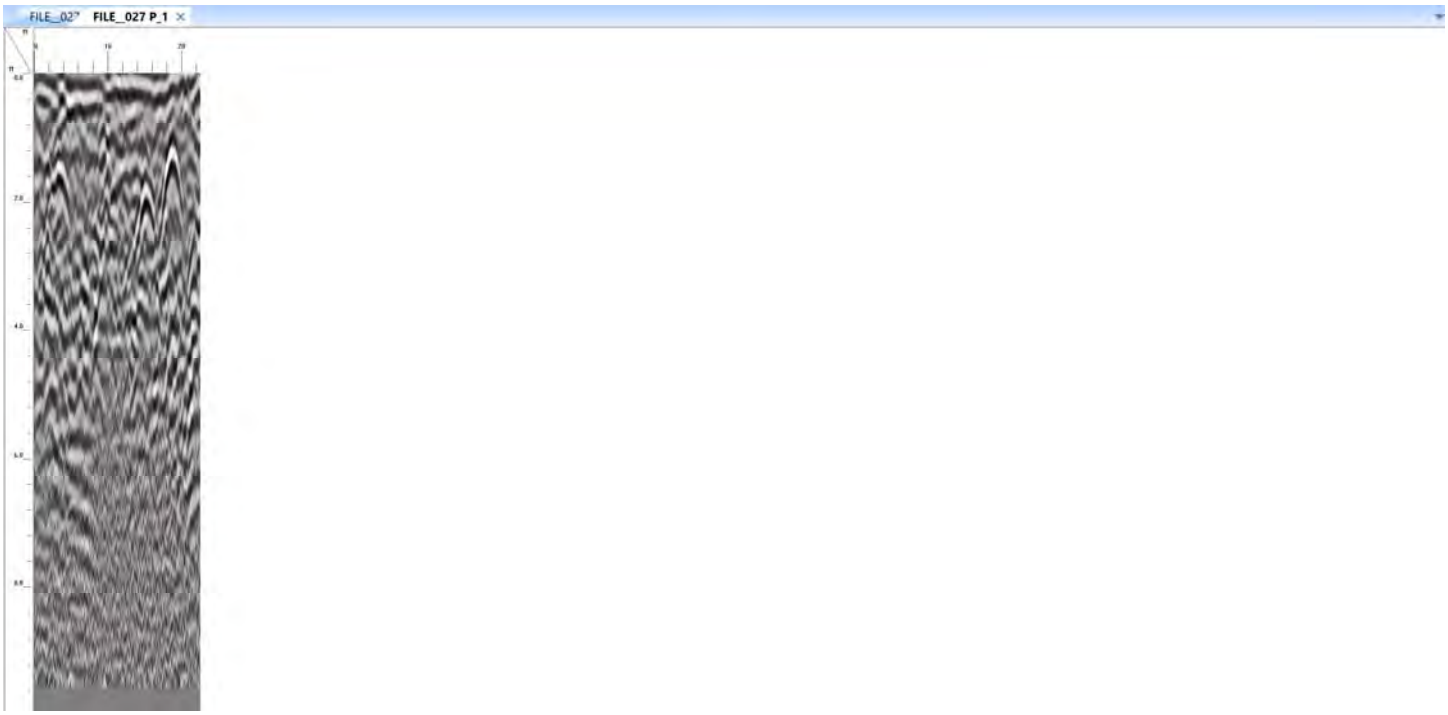
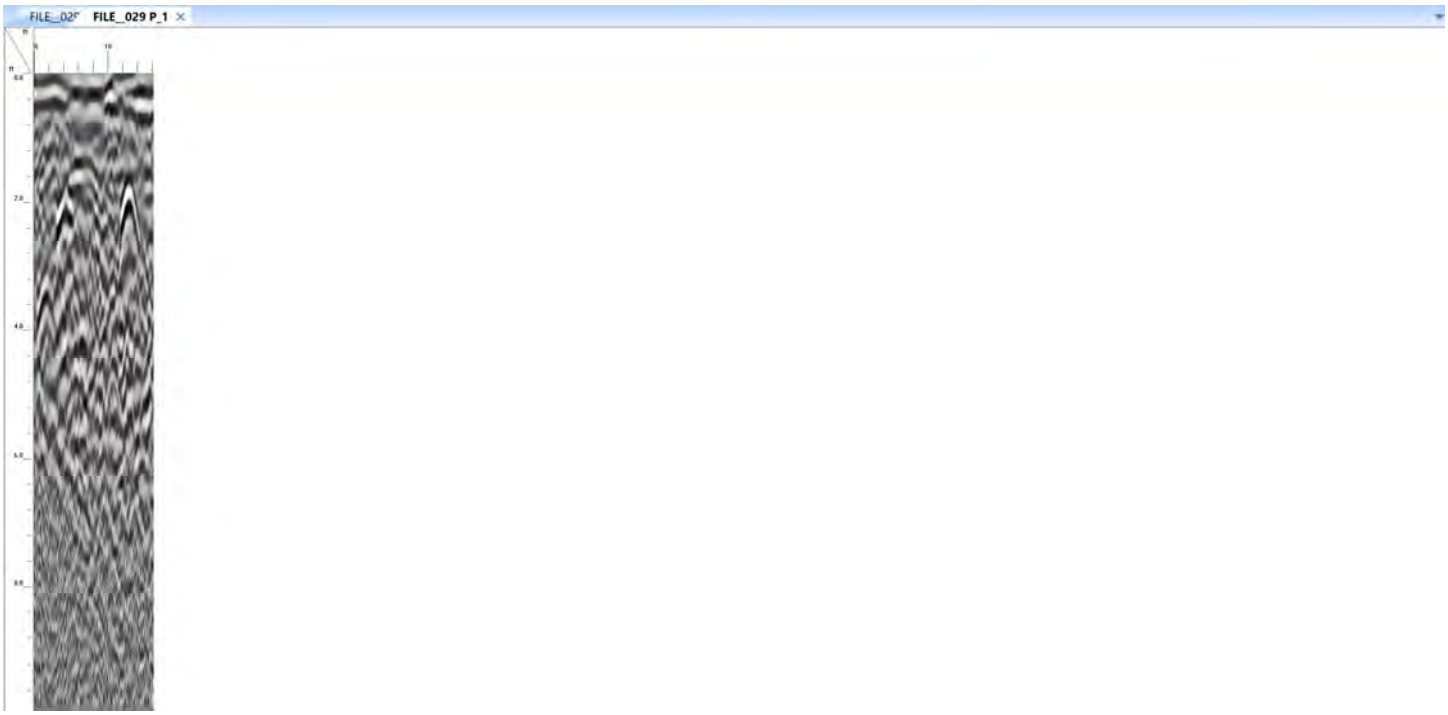


GPR Data: SB B-7, E-W, drain line



GPR Data: SB B-7, W-E

GPR Data: SB B-7, W-E, drain line, electric lines



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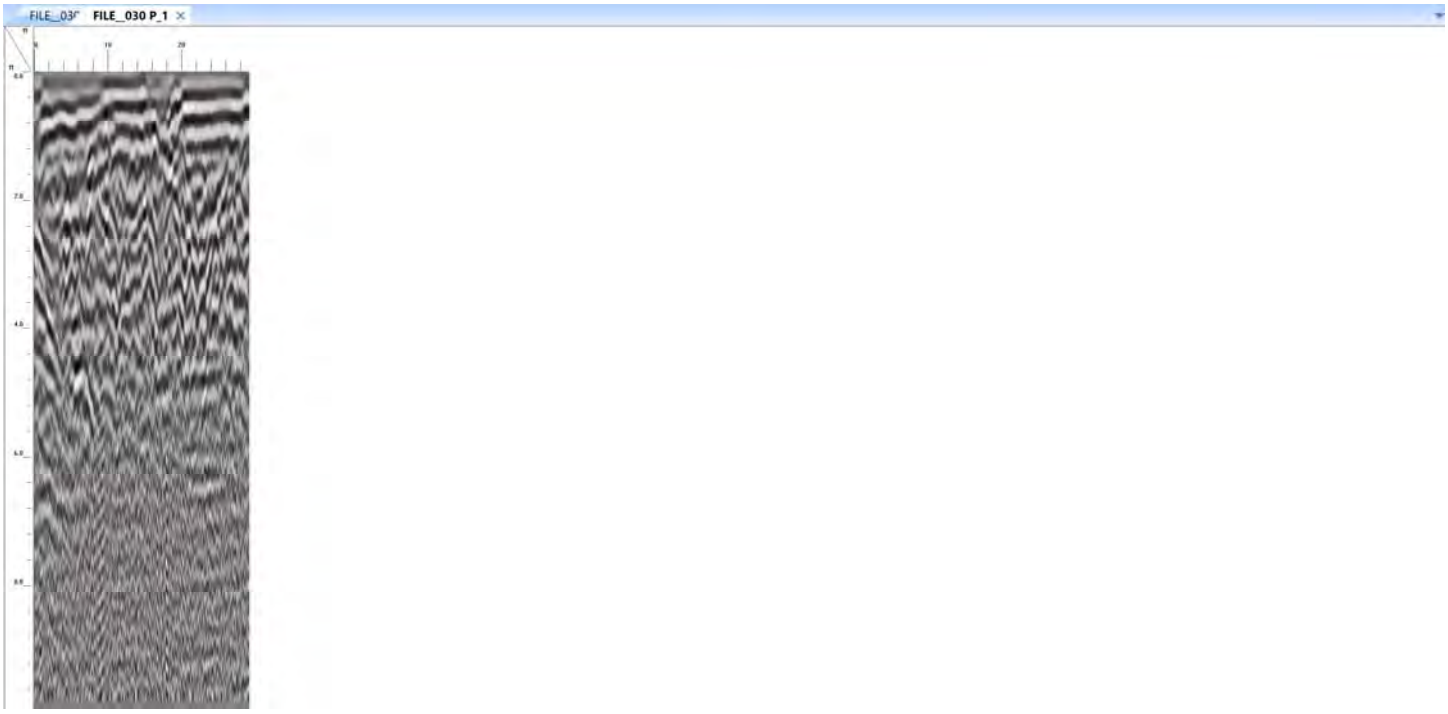
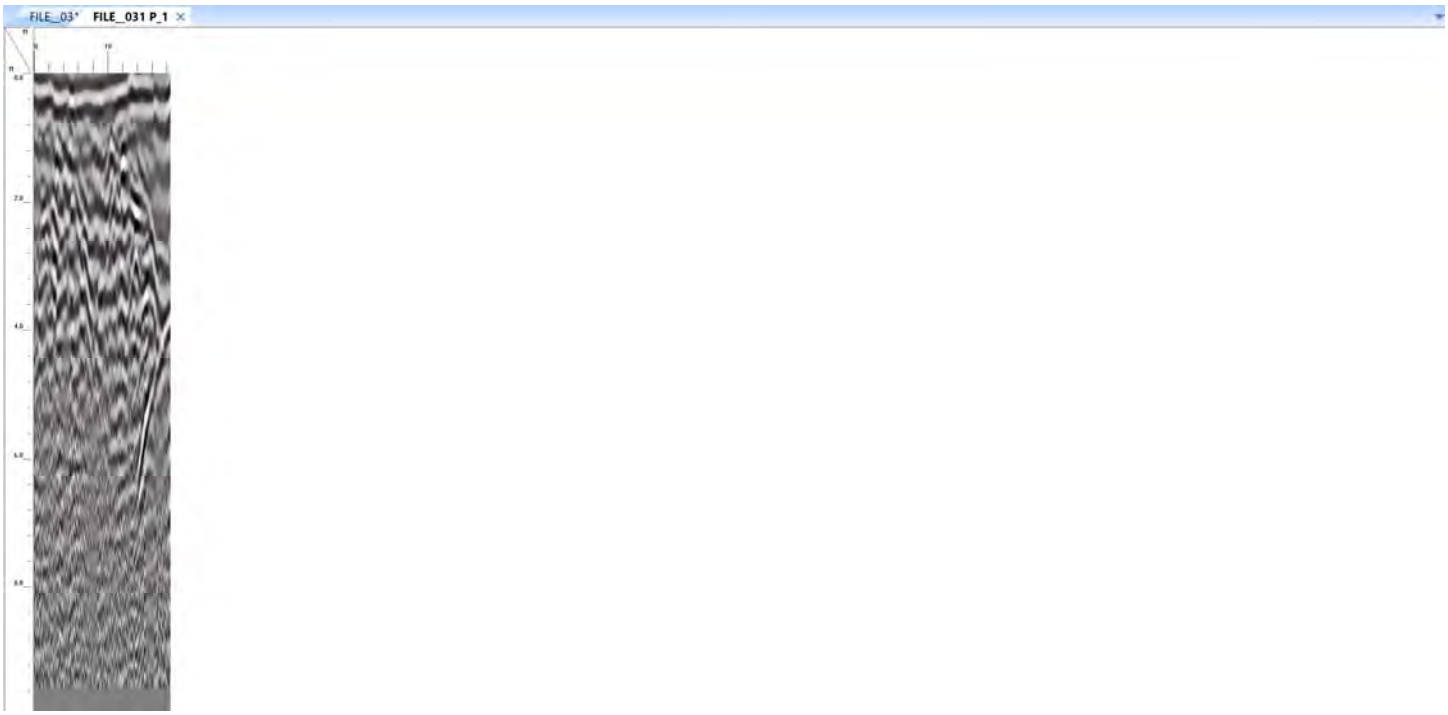
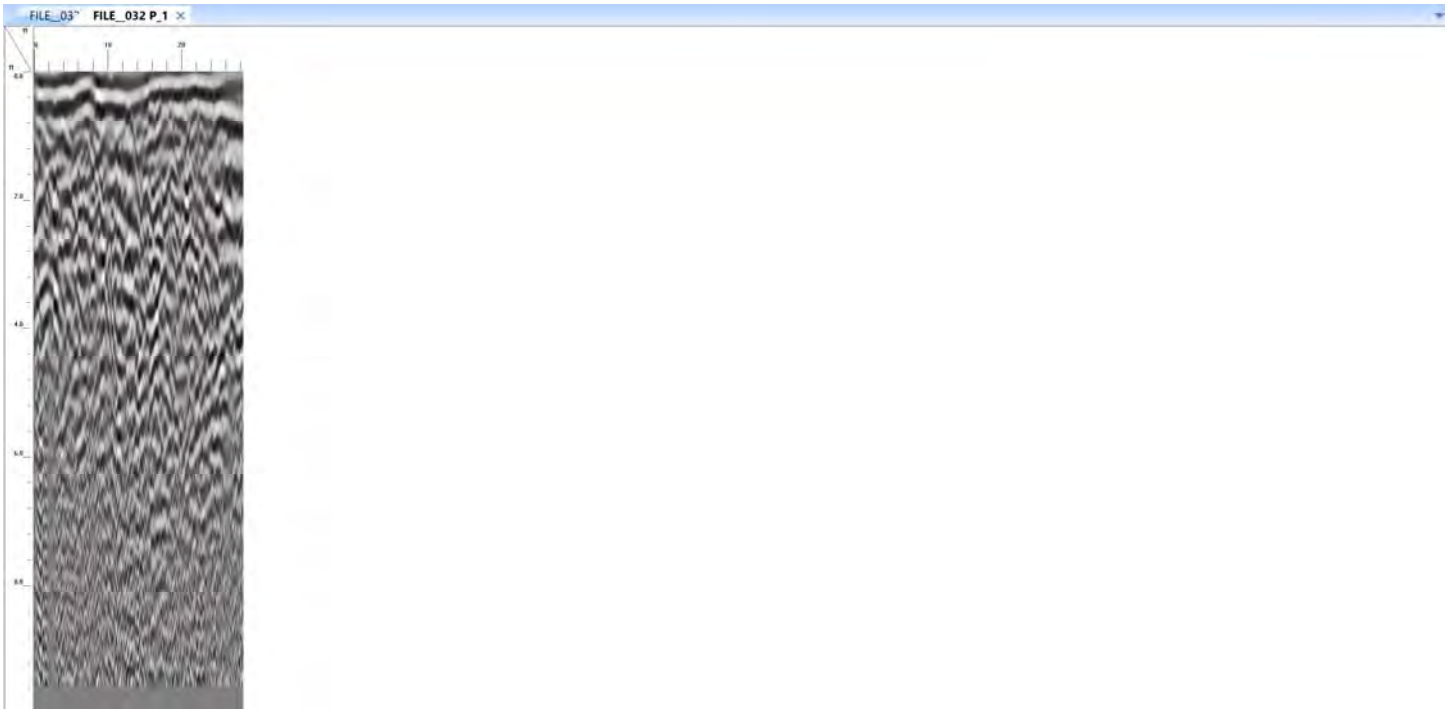


GPR Data: SB B-8, W-E



GPR Data: SB B-8, E-W



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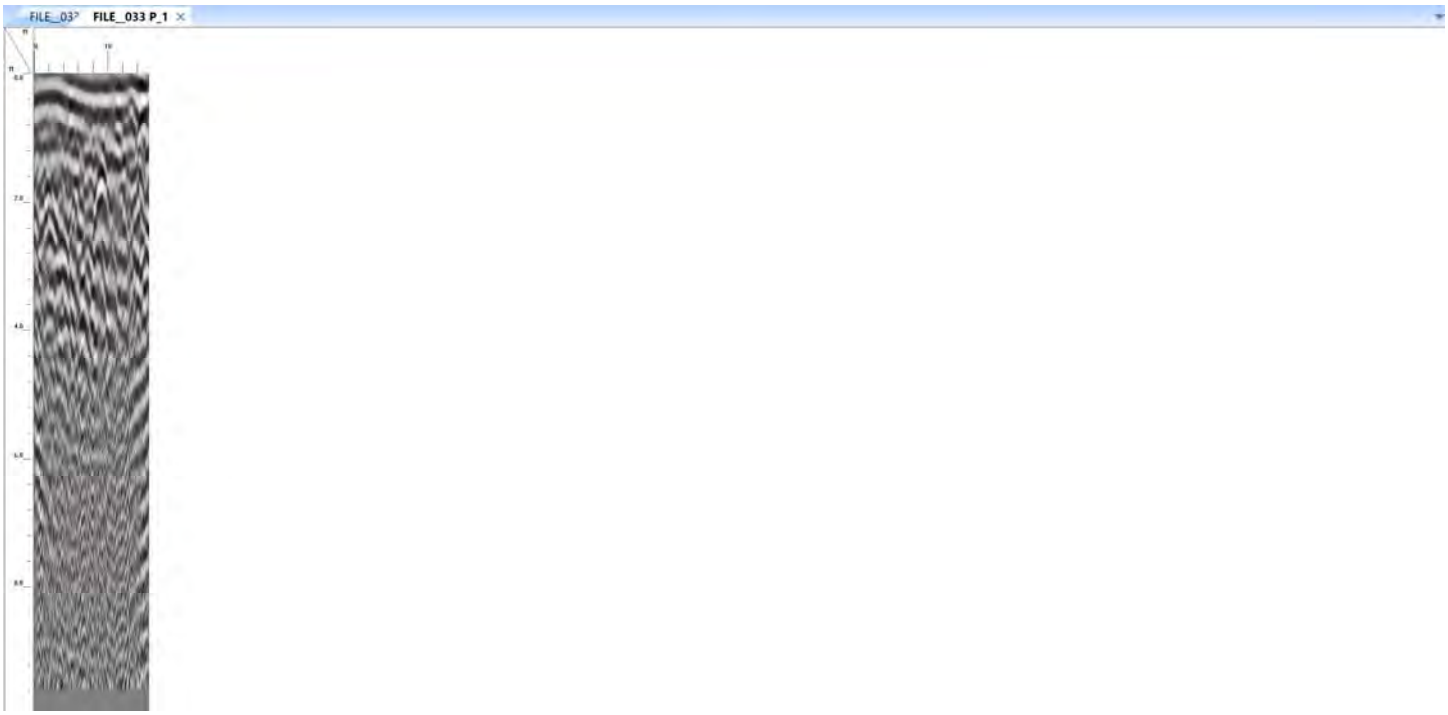
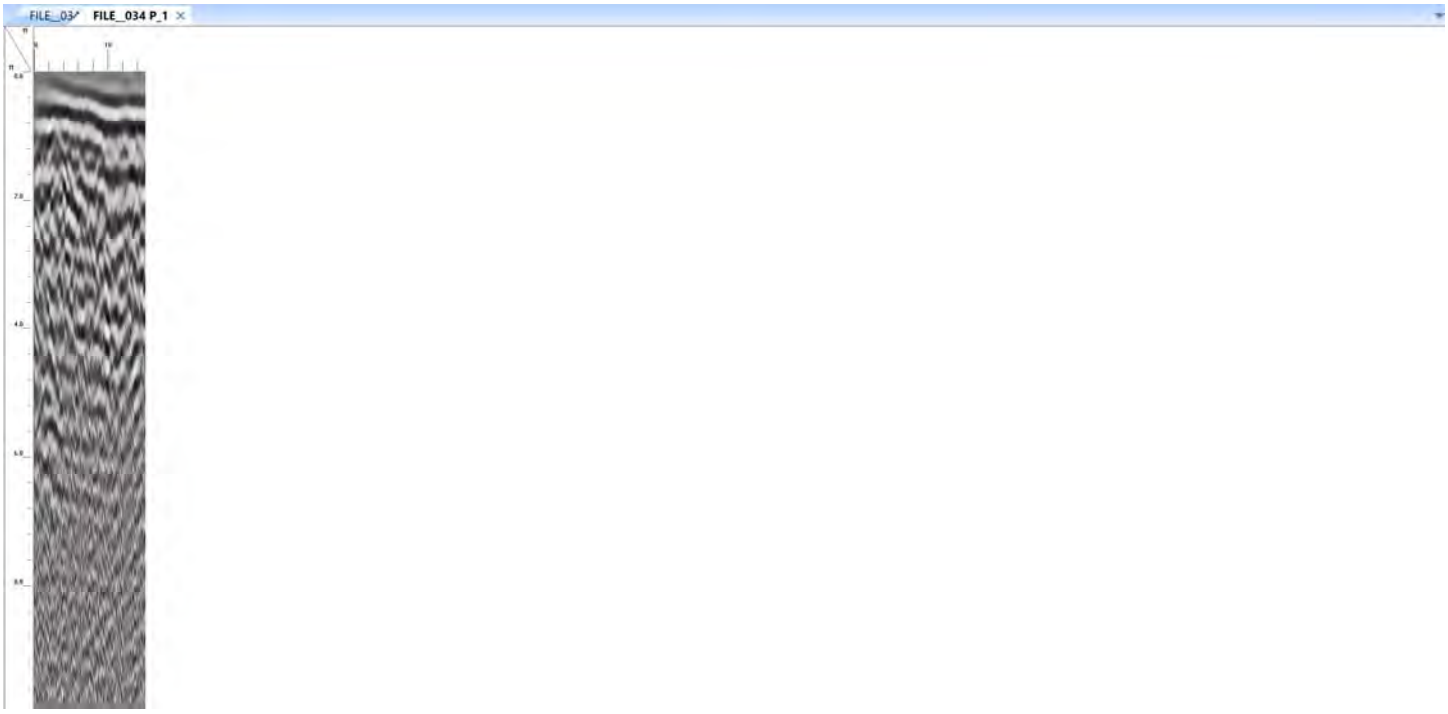


GPR Data: SB B-8, N-S



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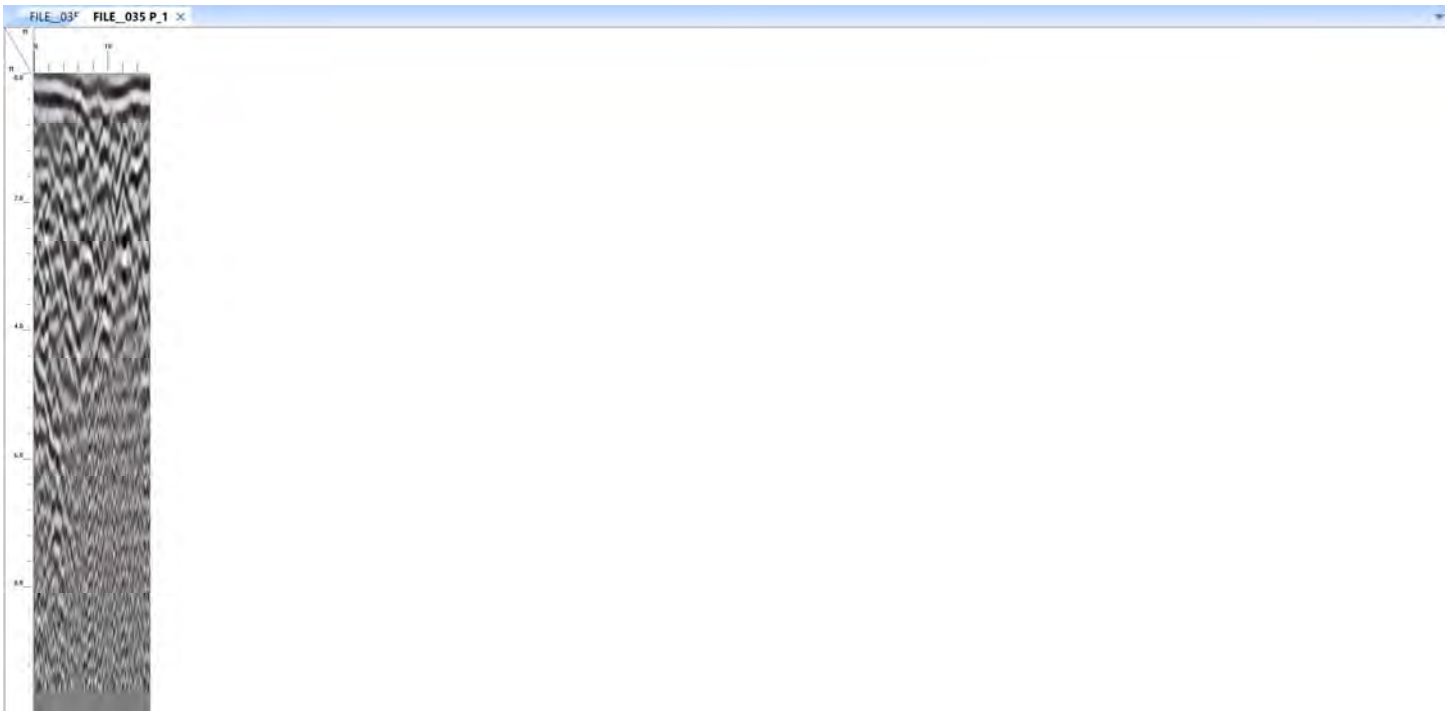
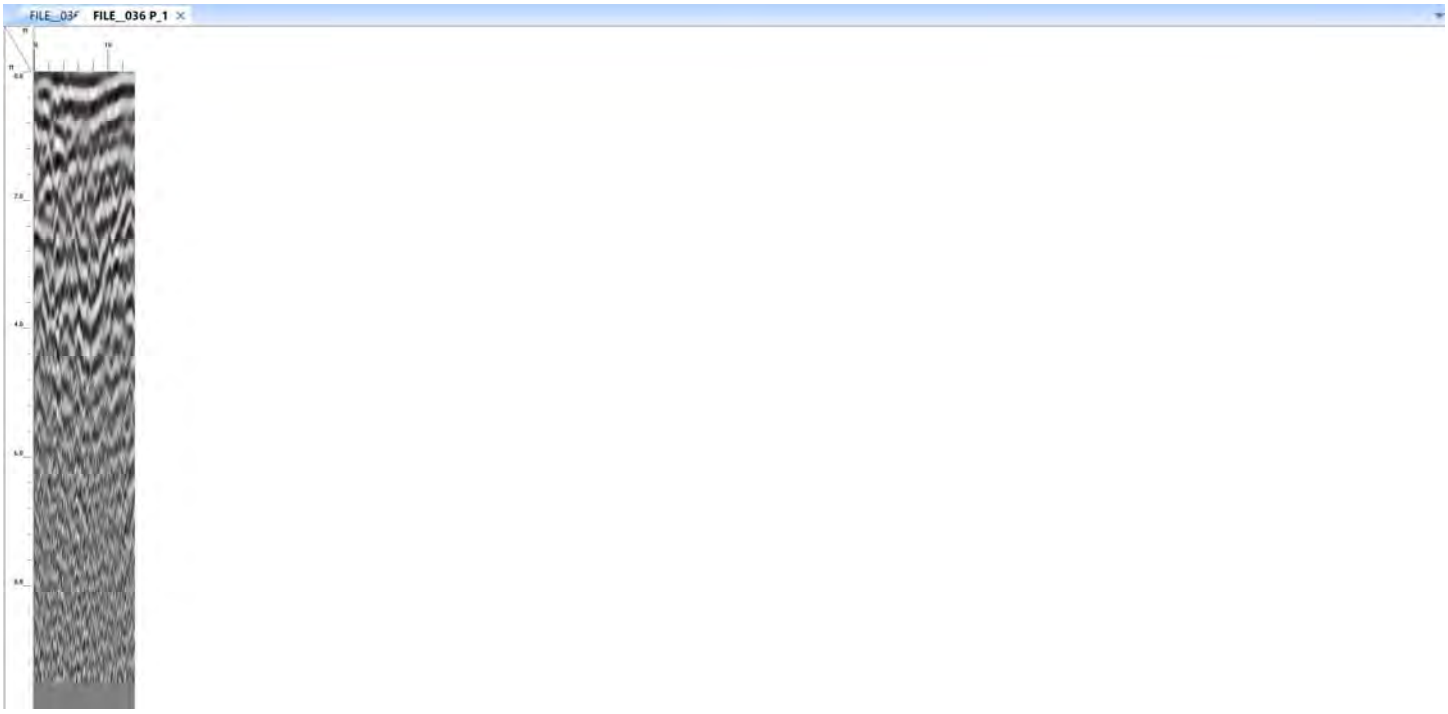
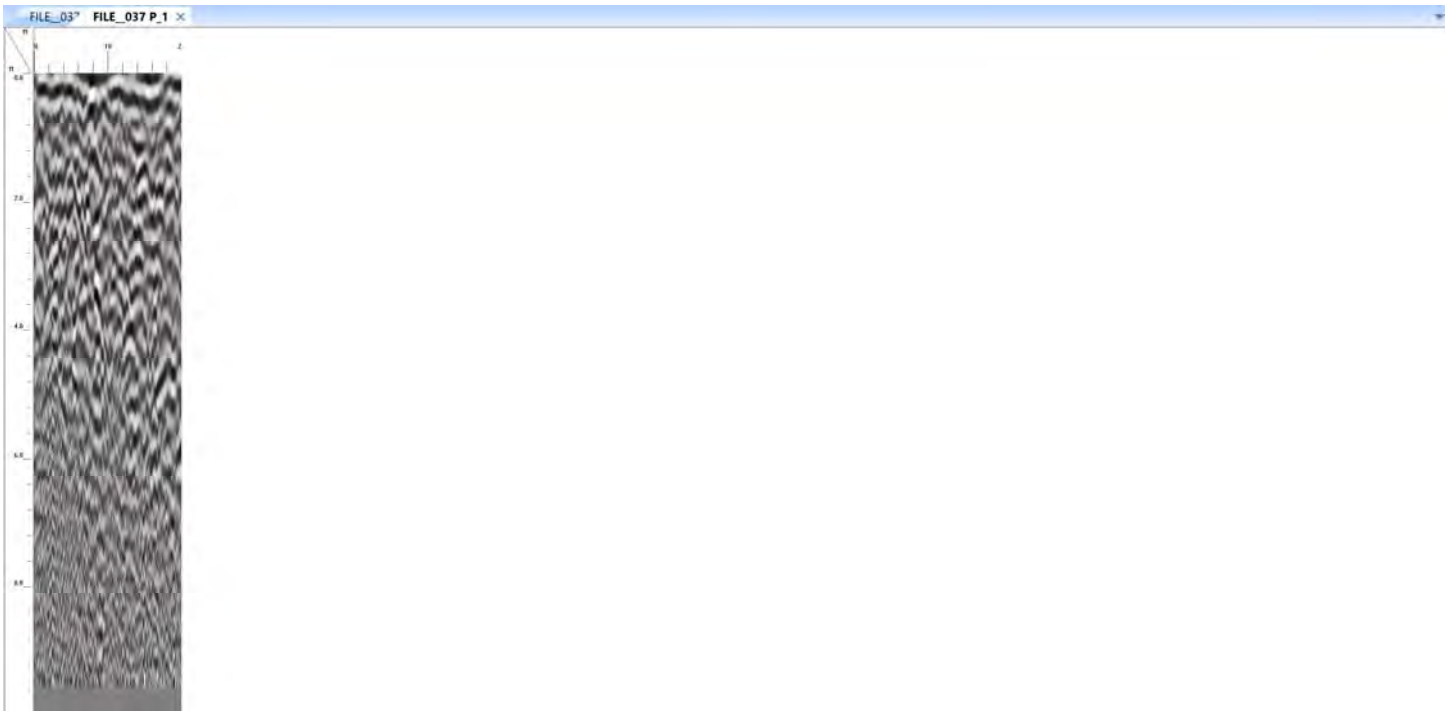


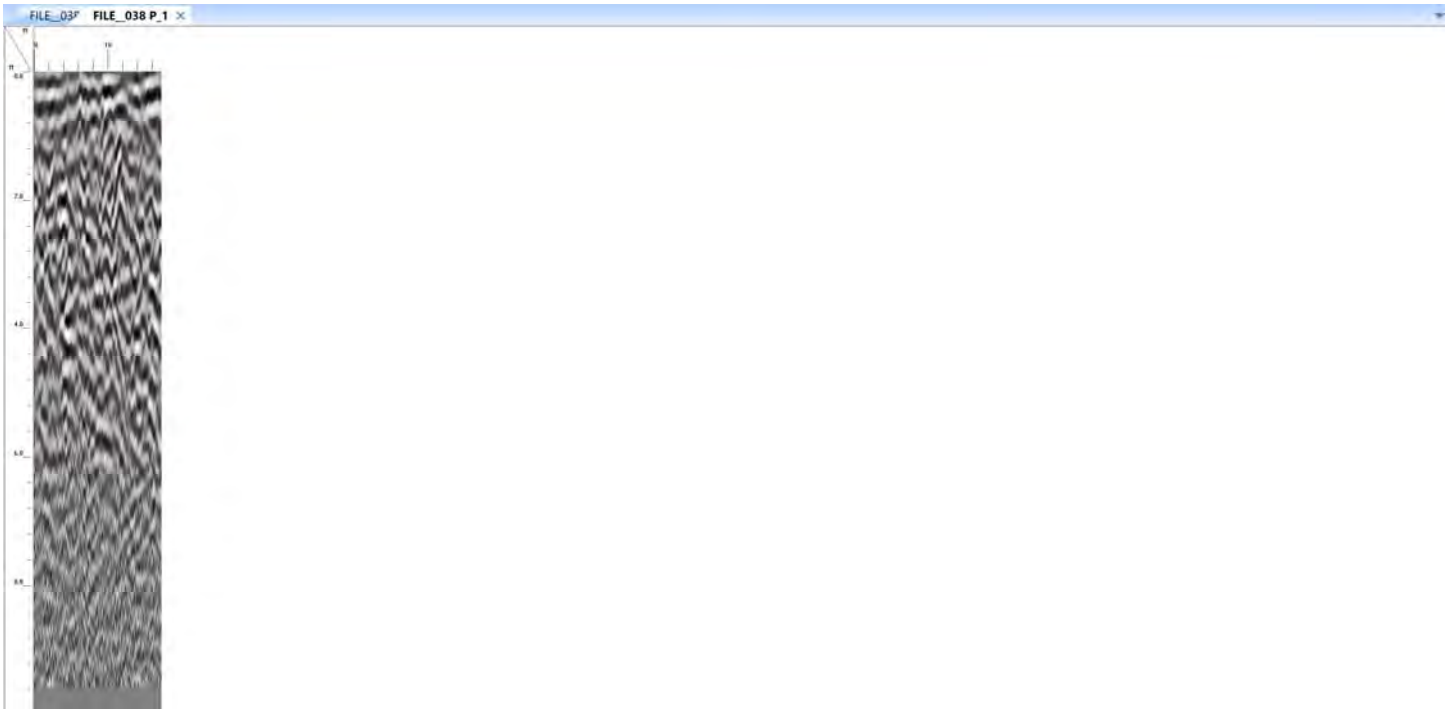
GPR Data: SB B-8, N-S



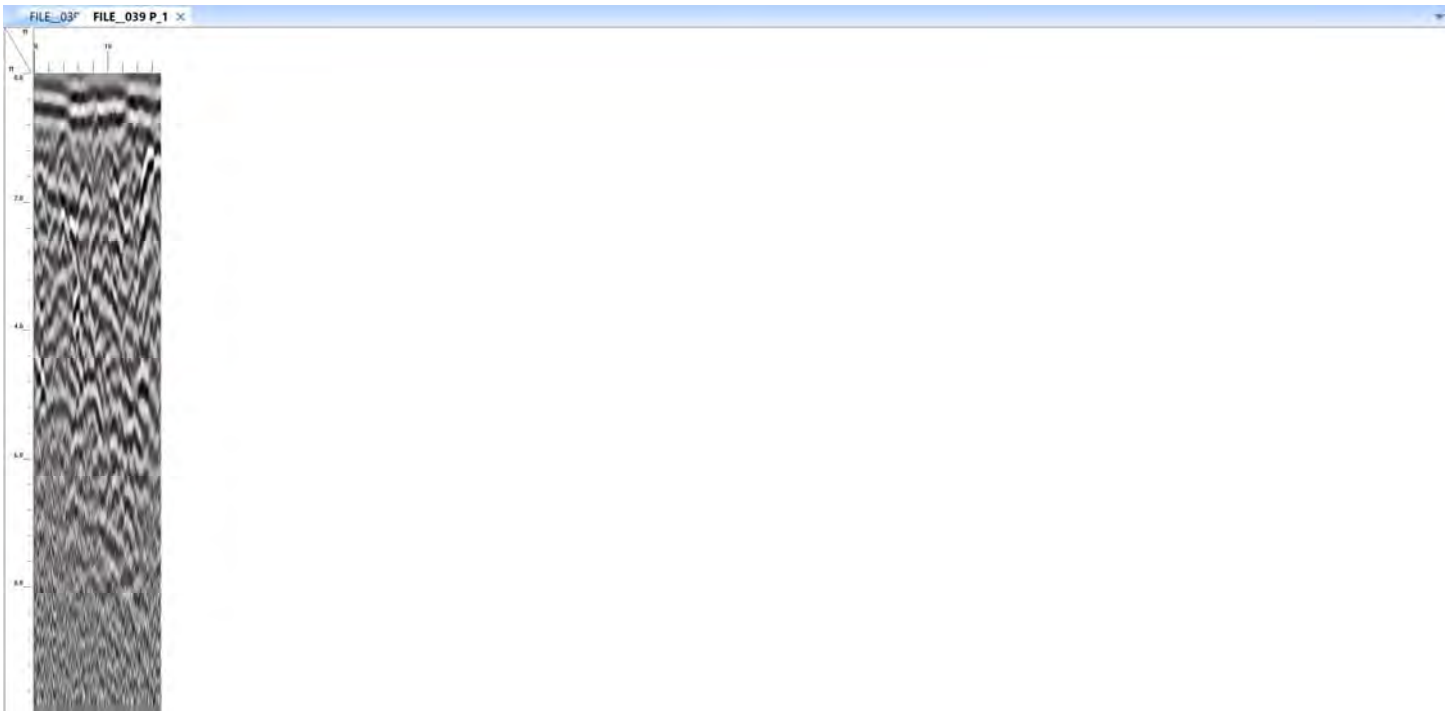
GPR Data: SB B-8, S-N



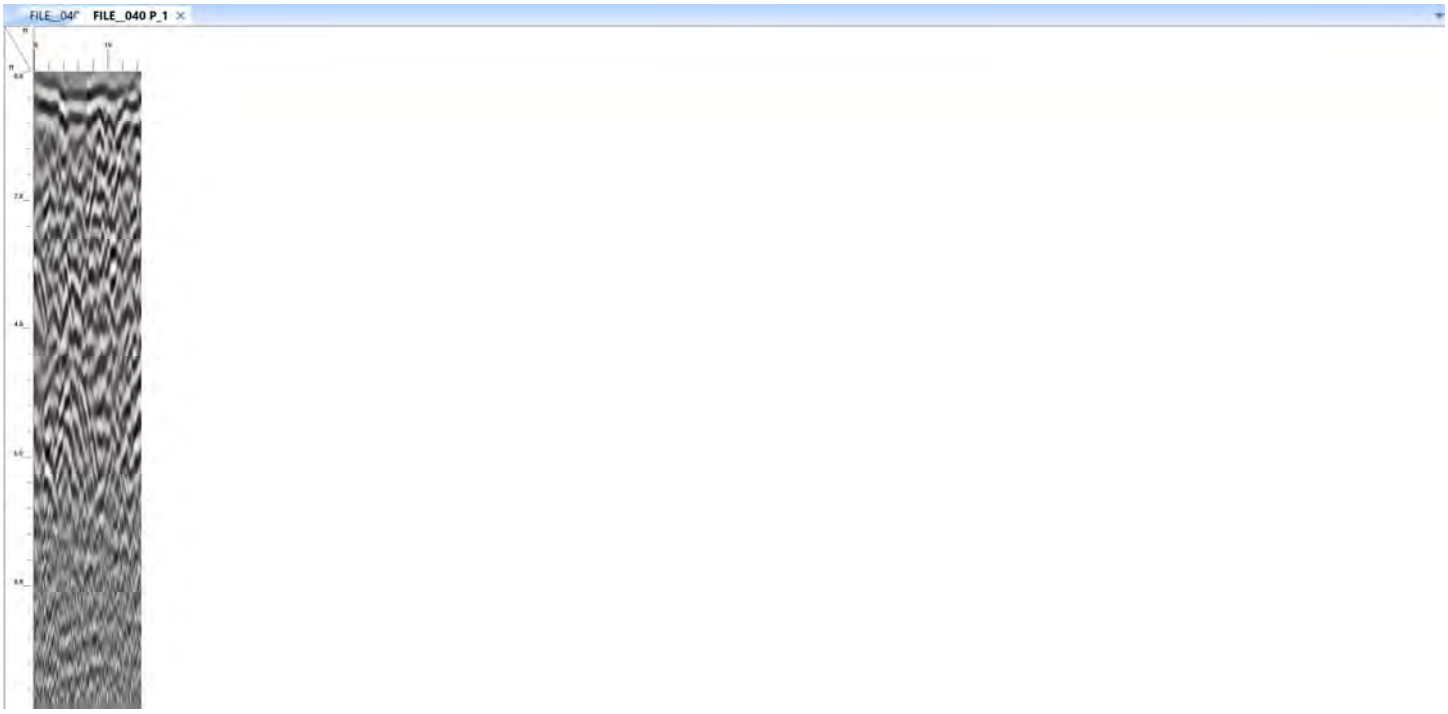
GPR Data: SB B-7, new area, E-W



GPR Data: SB B-7, W-E



GPR Data: SB B-7, E-W



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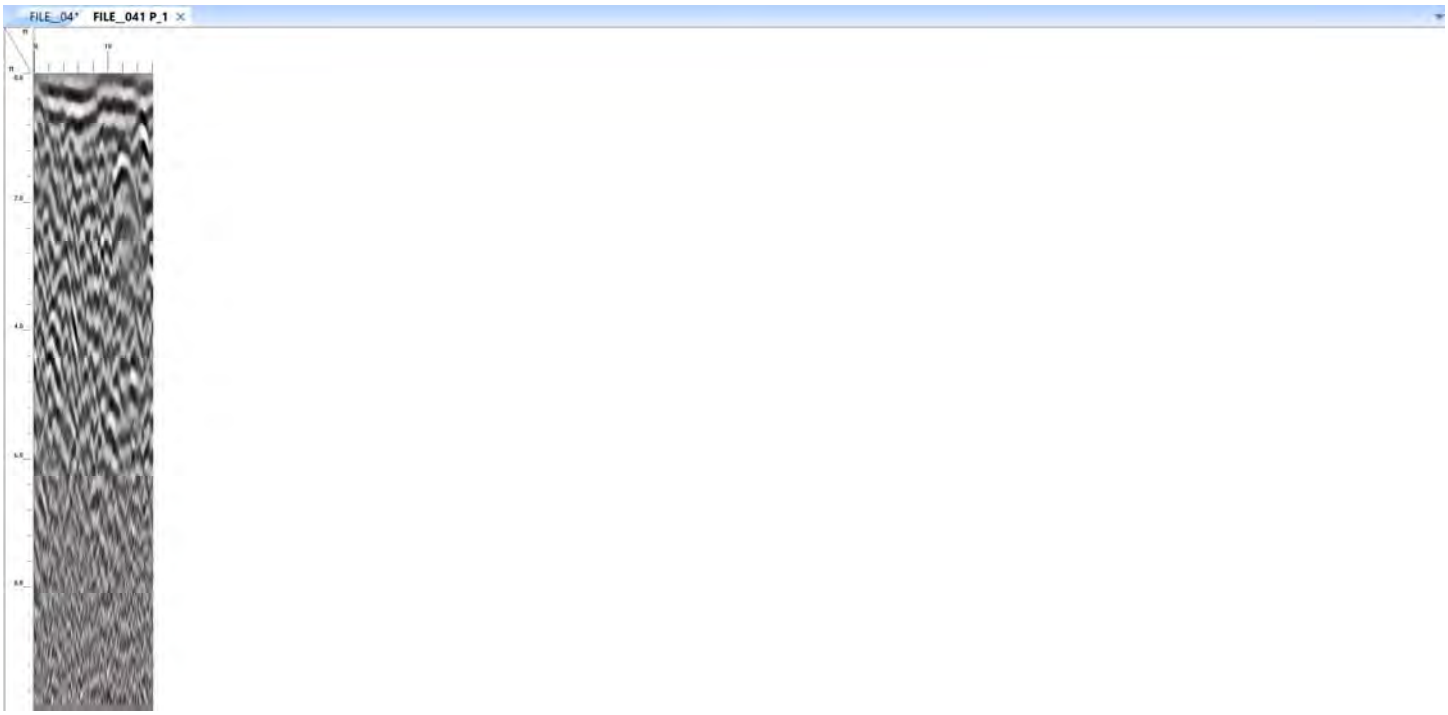
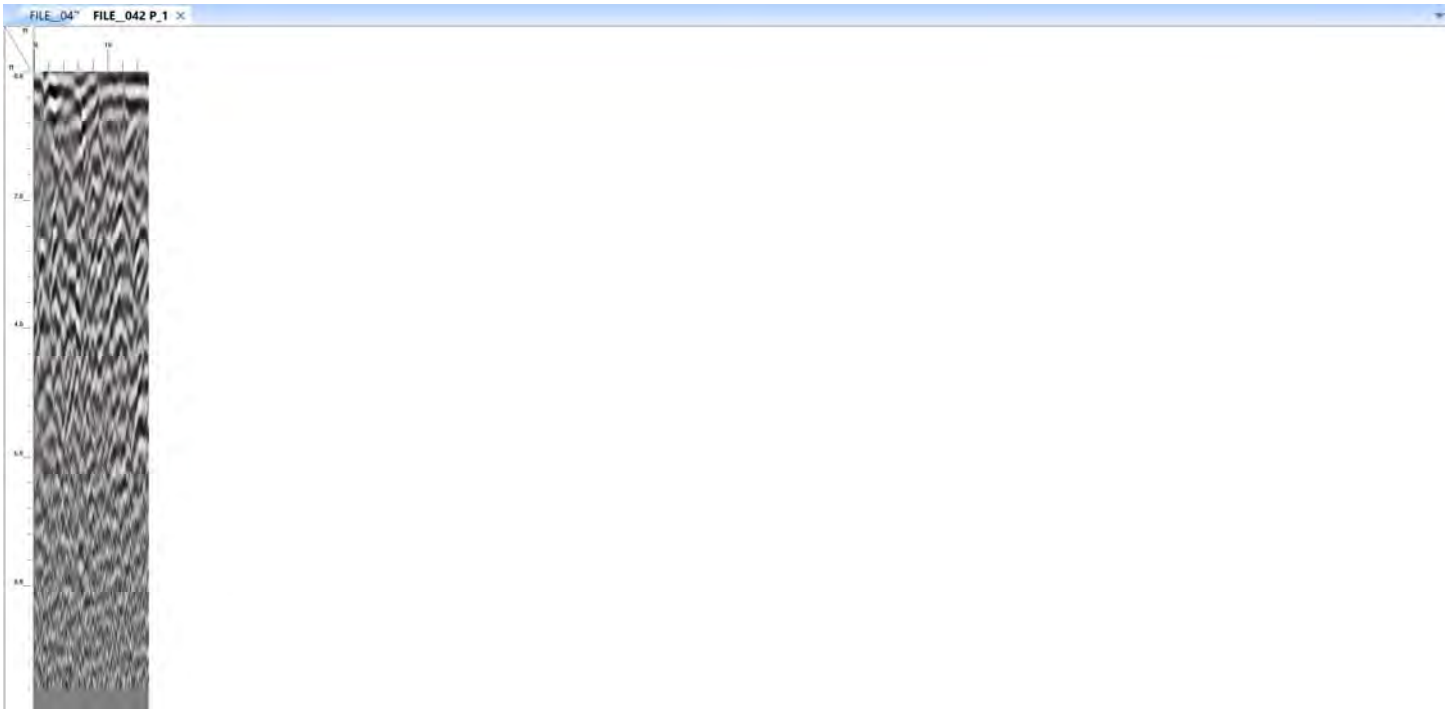


GPR Data: SB B-7, N-S



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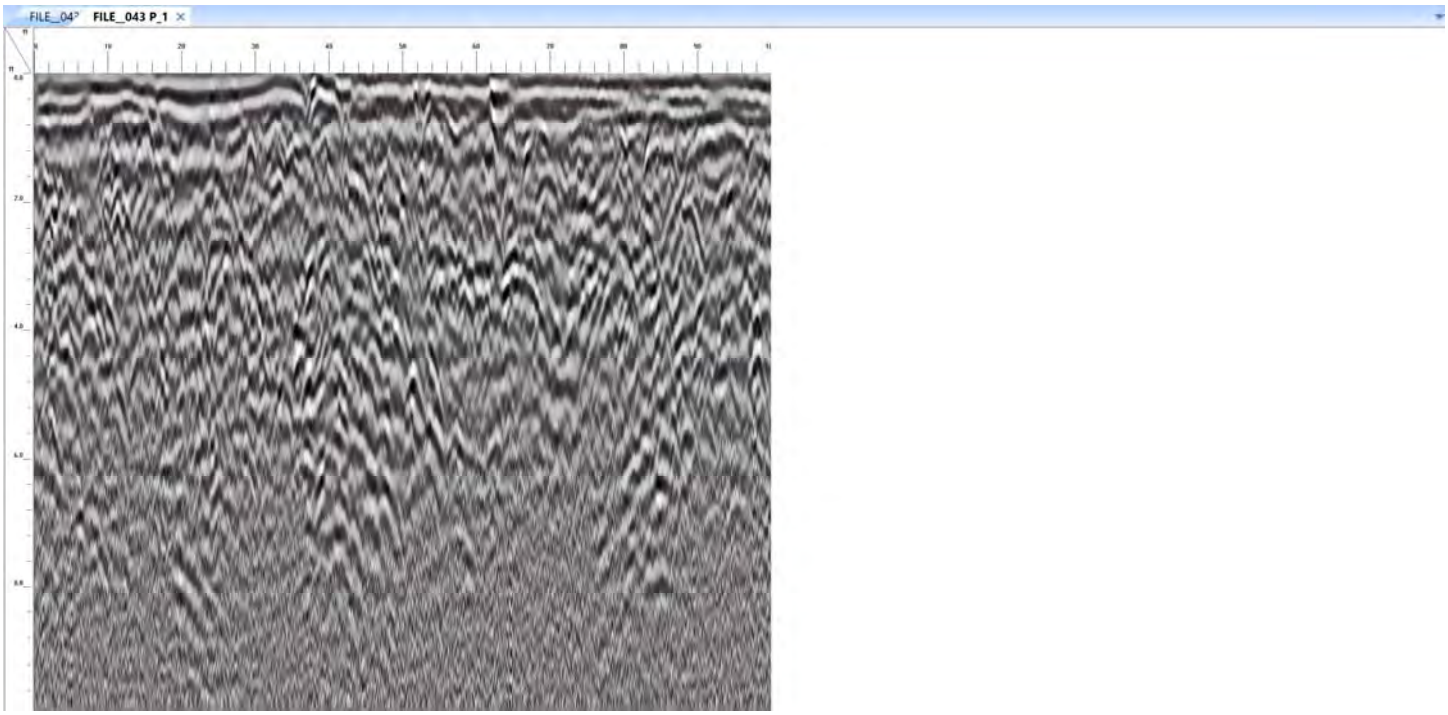
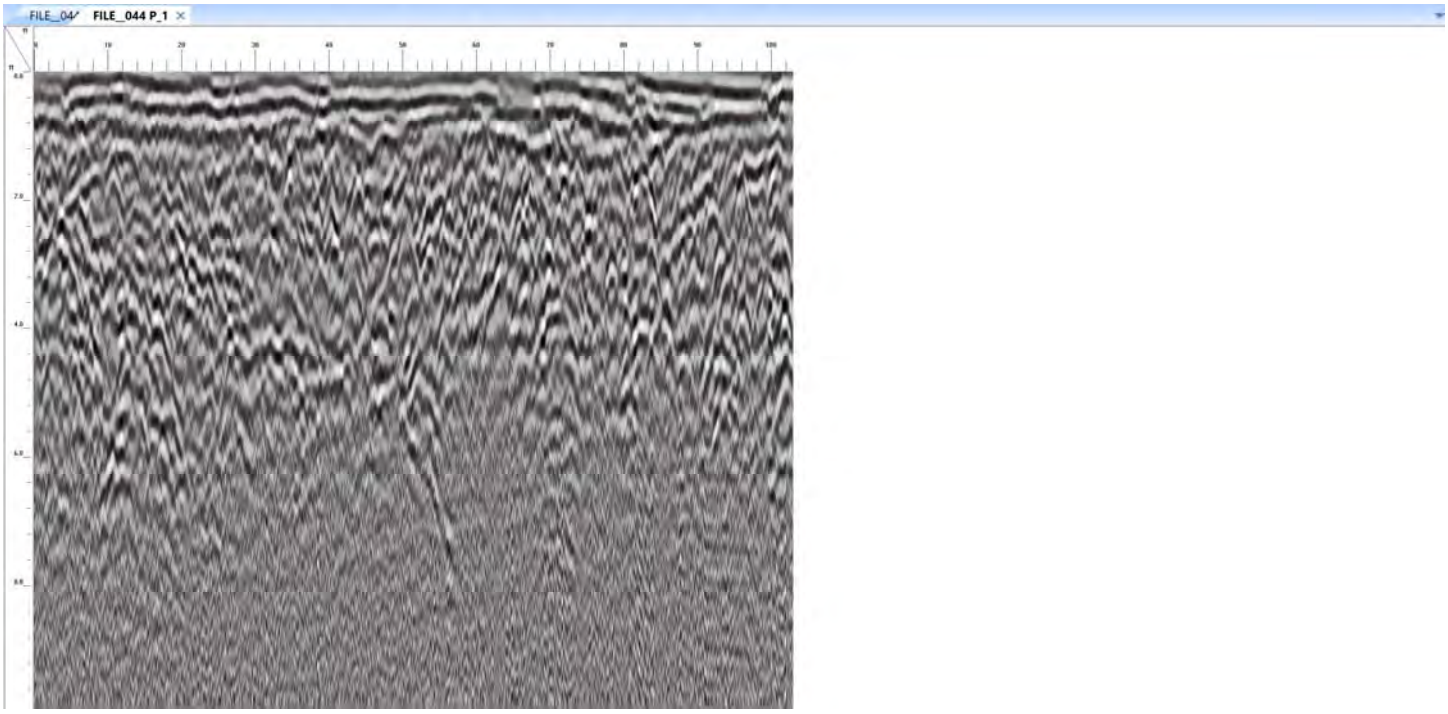
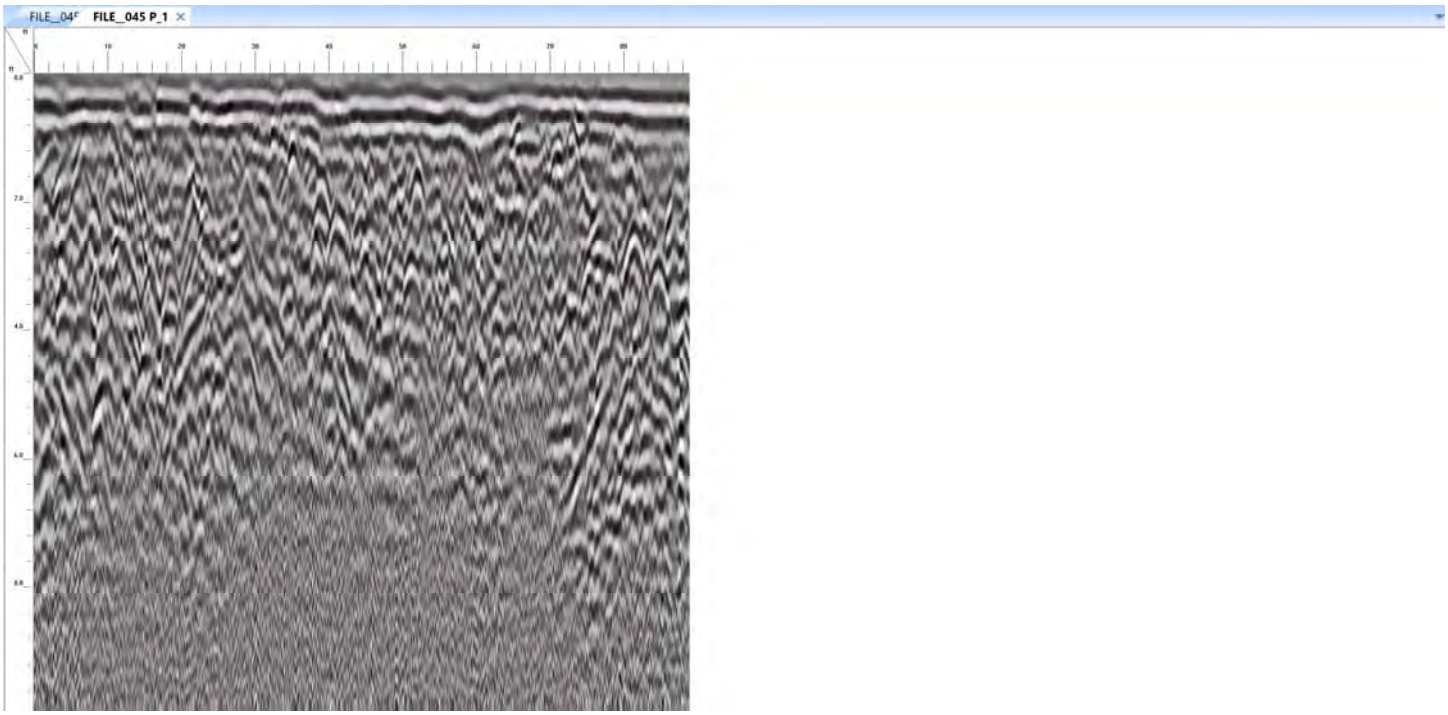


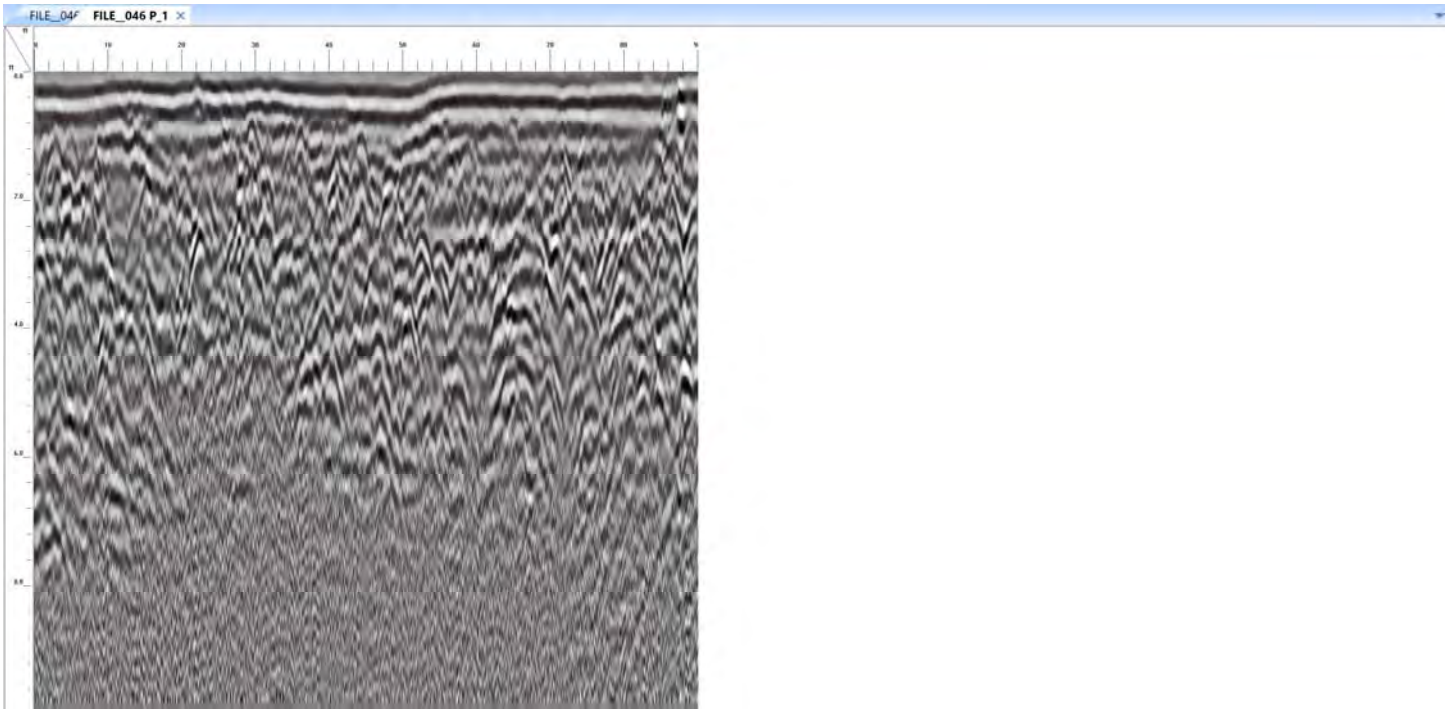
GPR Data: Parking lot, Line 0, E-W



GPR Data: : Parking lot, Line 1, W-E



GPR Data: : Parking lot, Line 2, E-W



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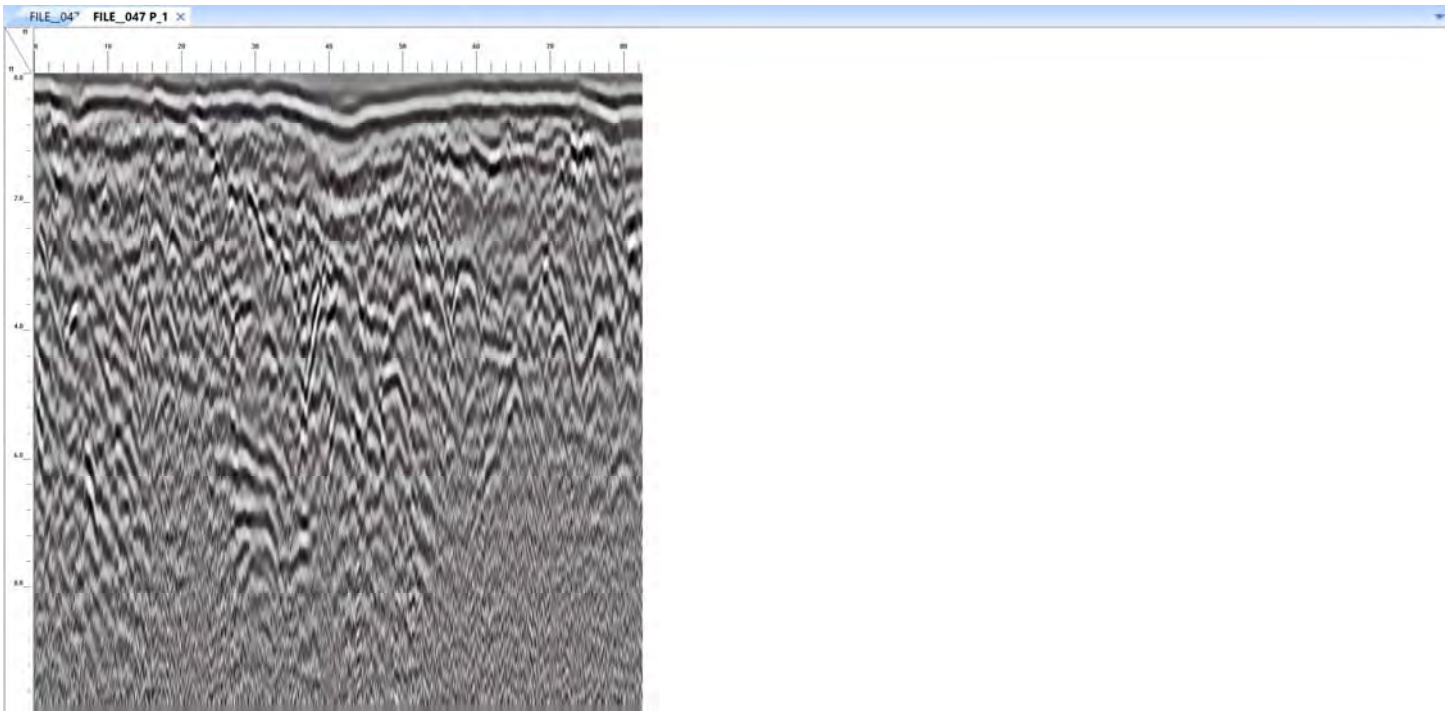

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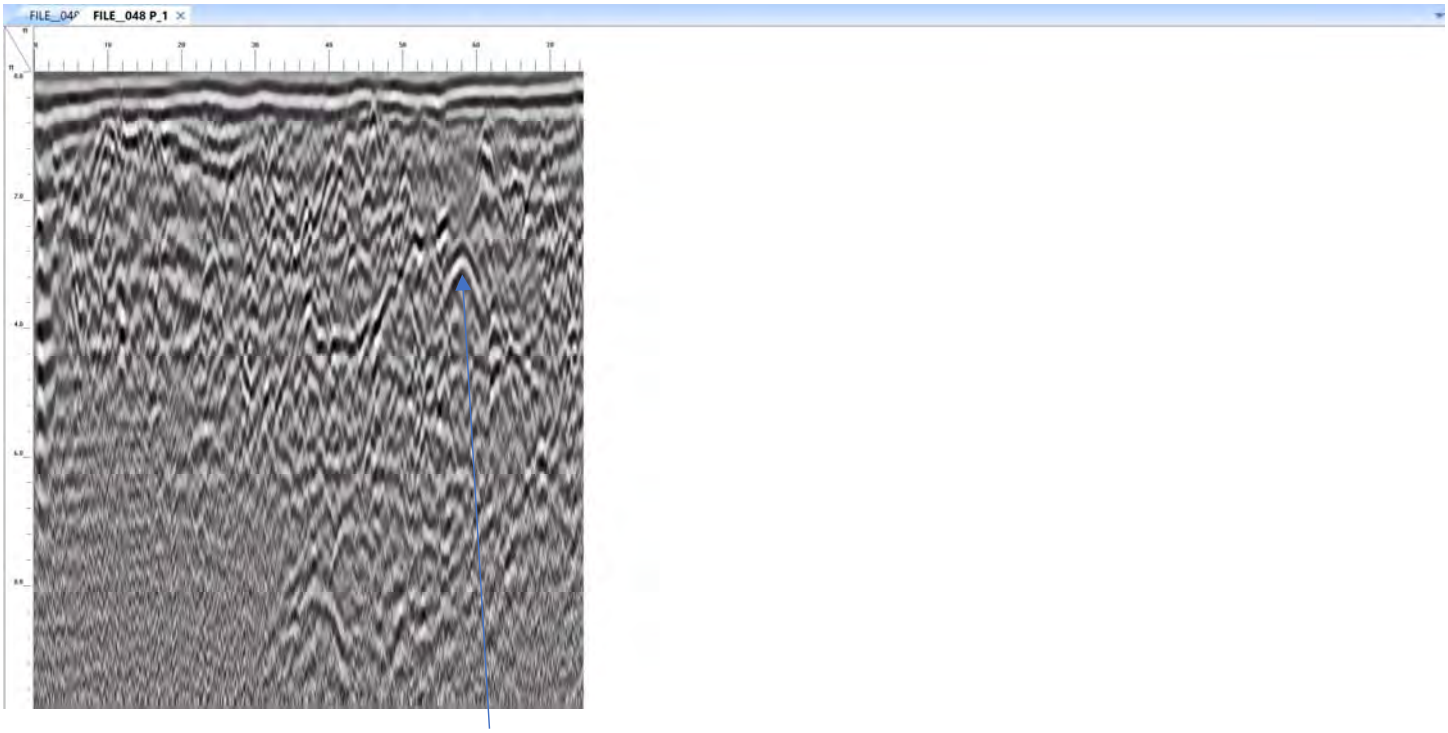

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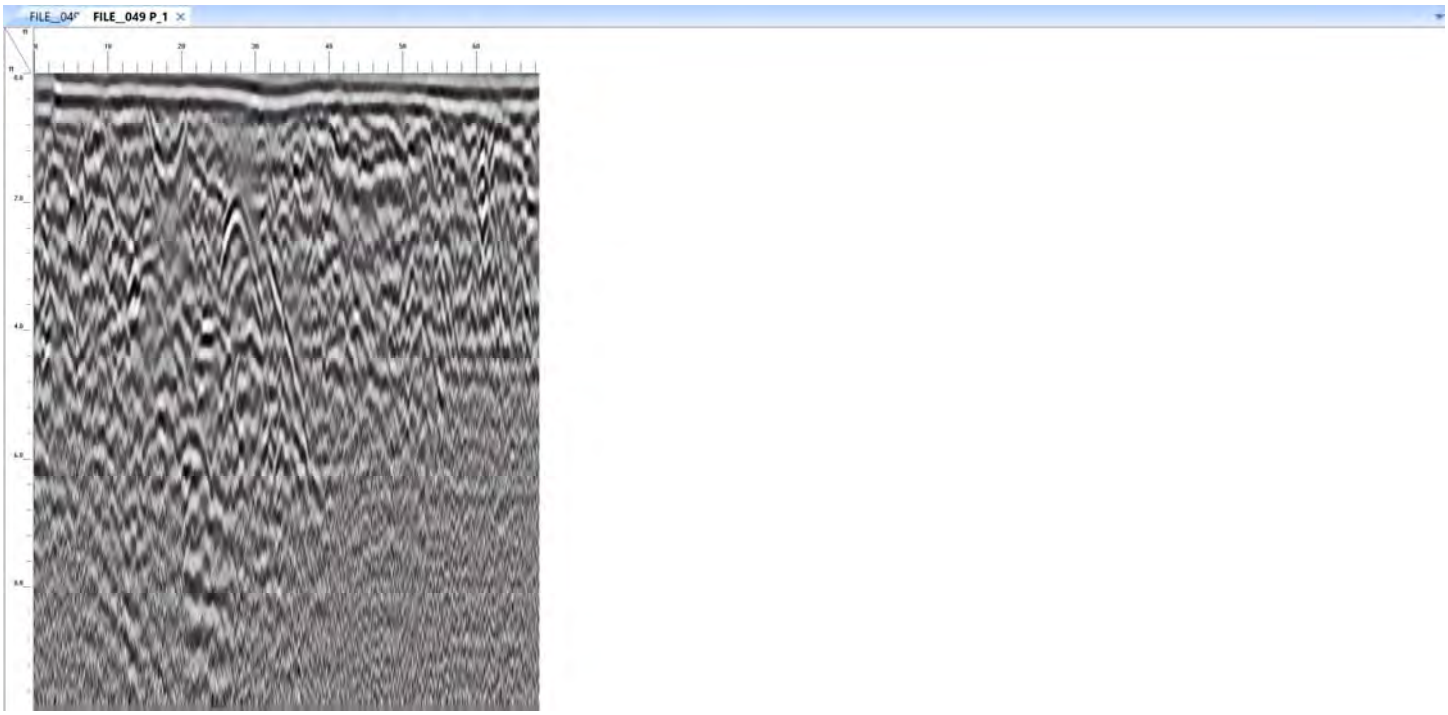

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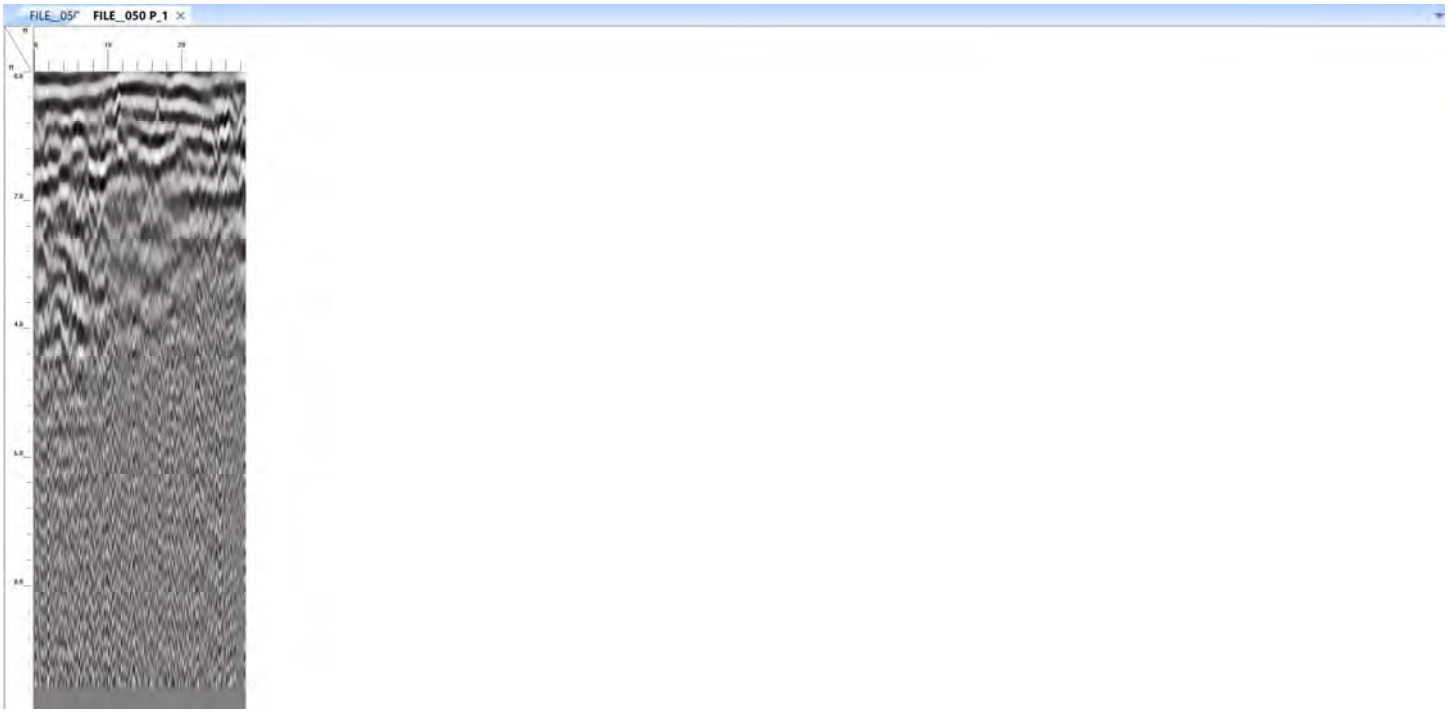

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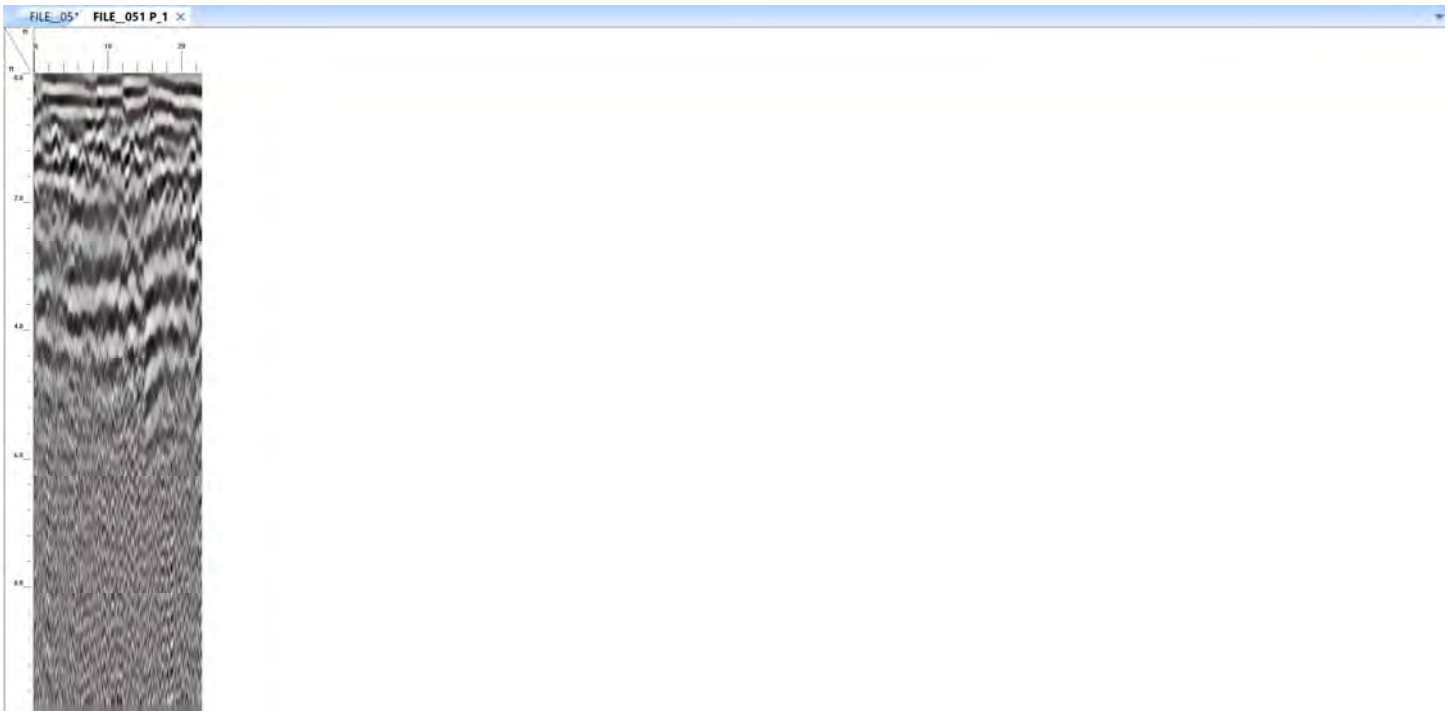

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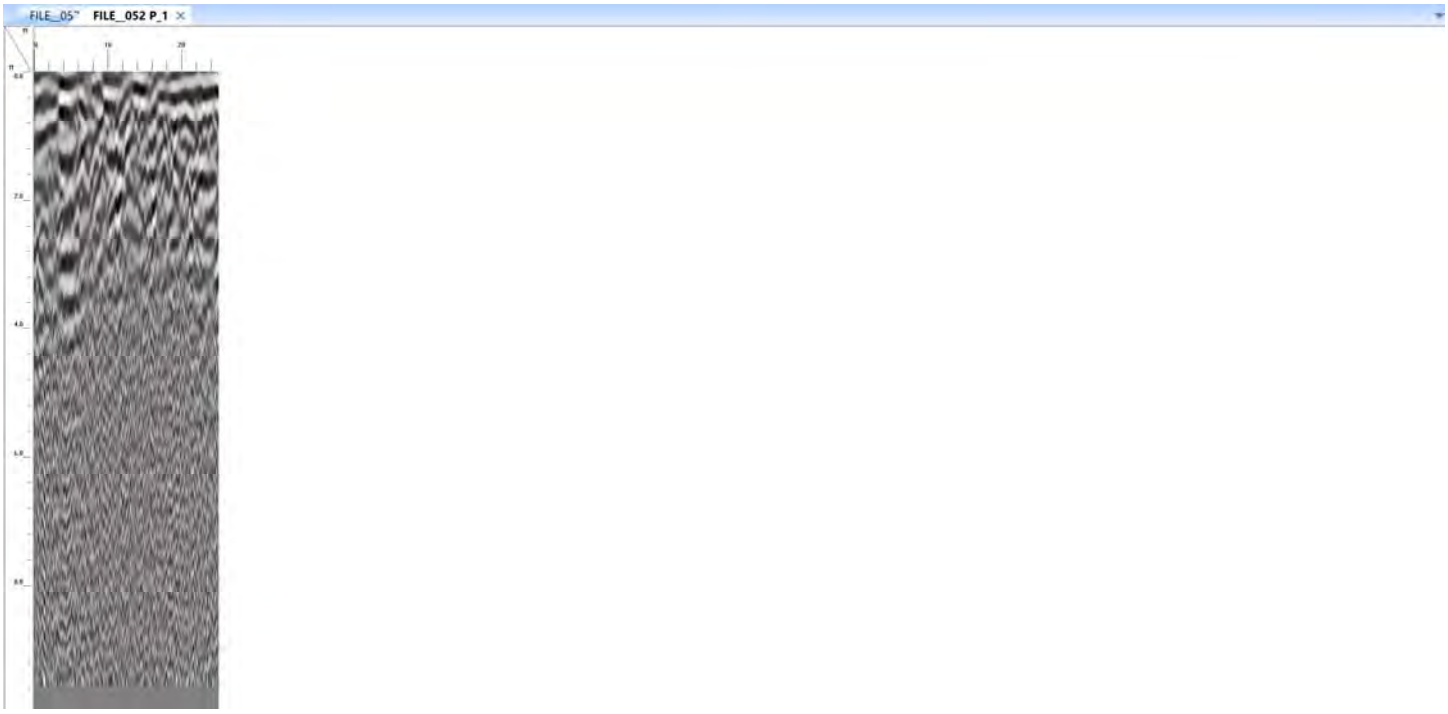

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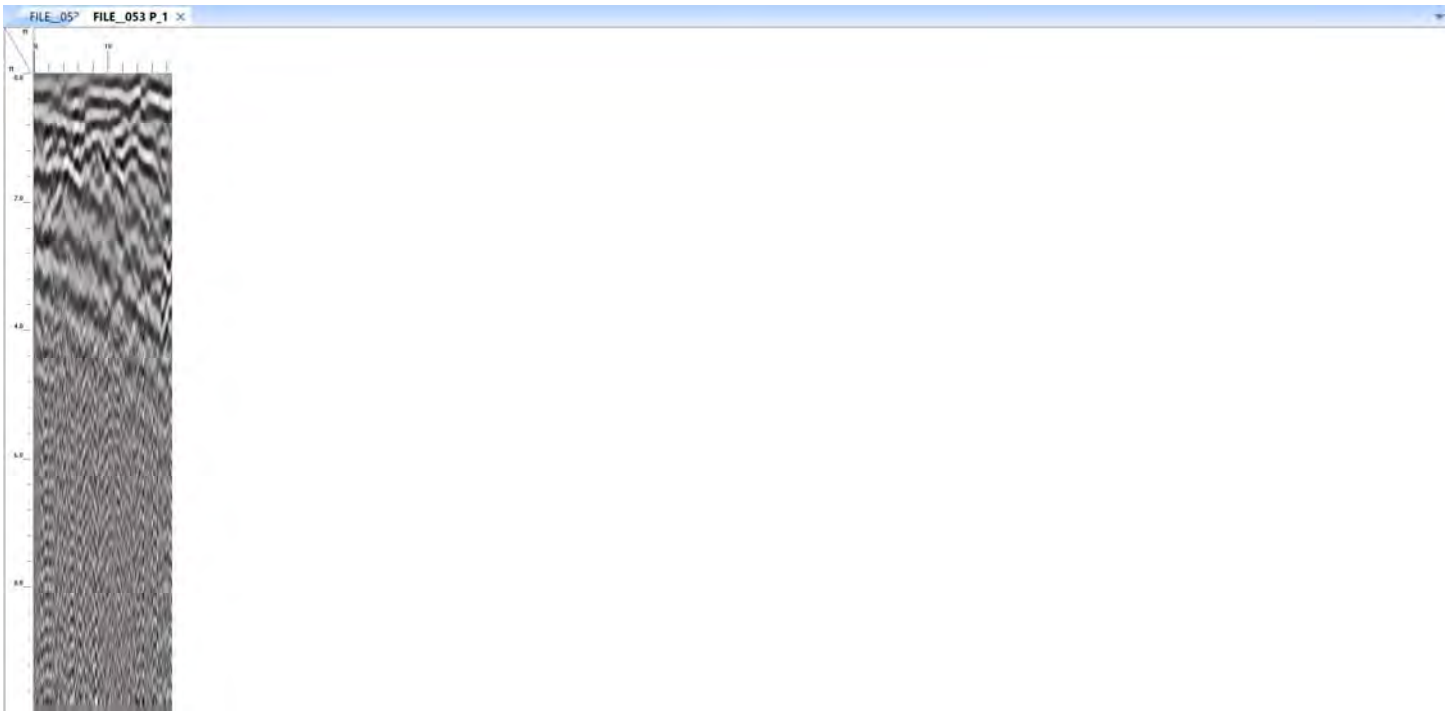

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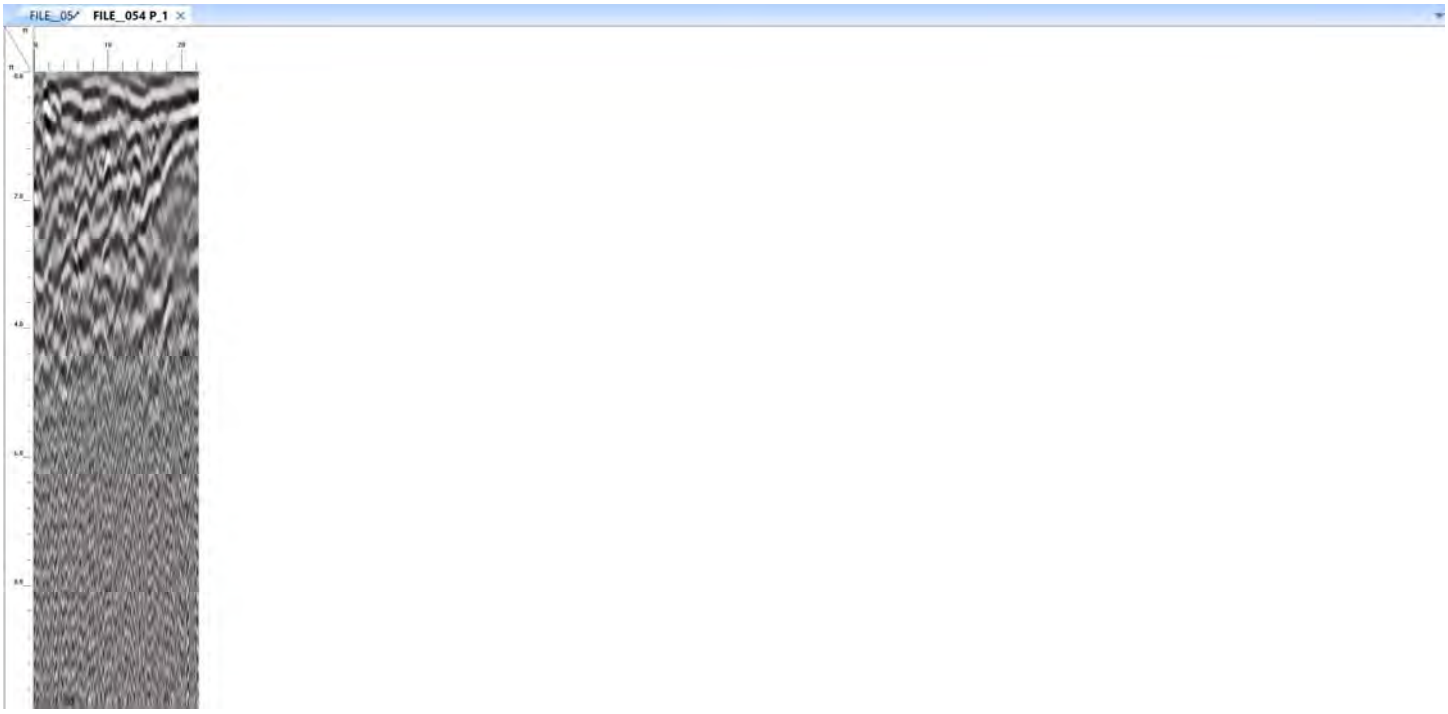

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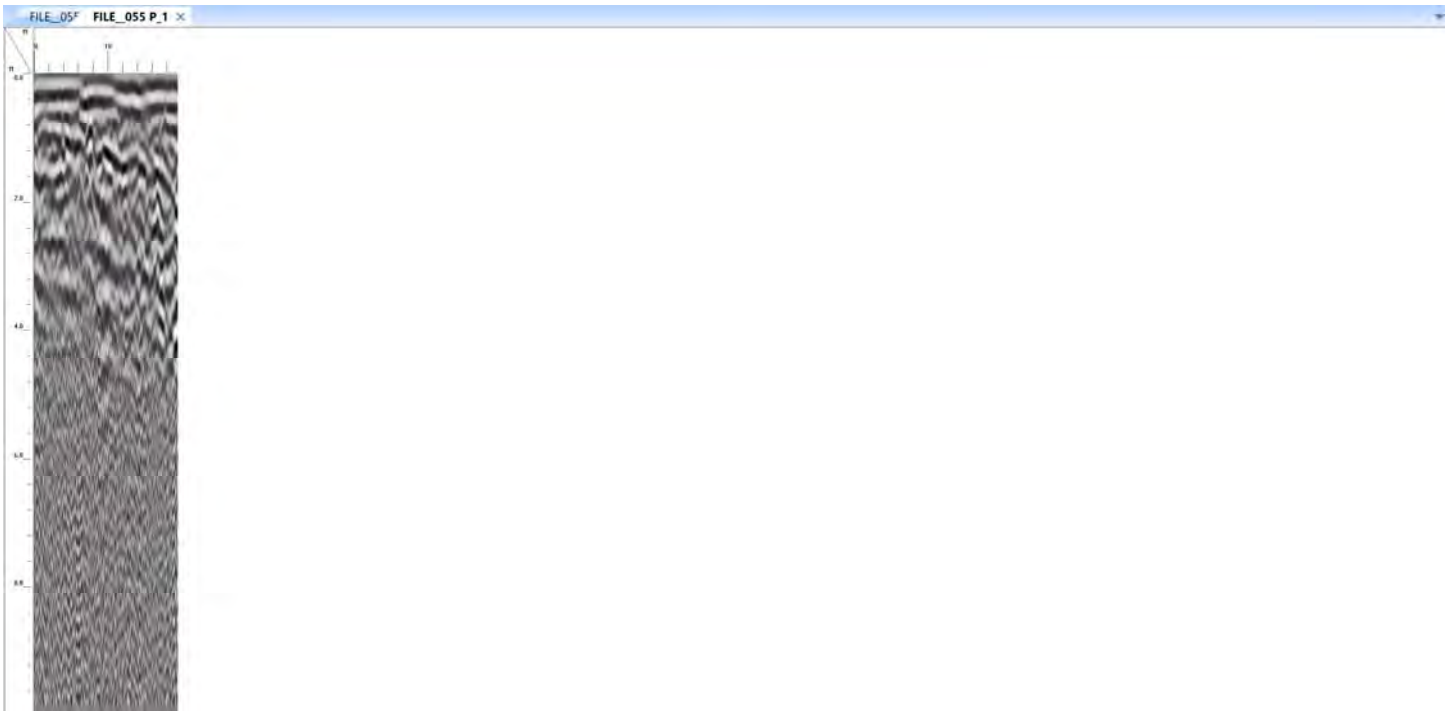

GPR Data: SB B-6, S-N

Appendix H: 2019 Supplemental Phase II Environmental Site Assessment (84 Sheets)

Phase II Environmental Site Assessment

Montlake Market and Gas Station Properties

2625 East Montlake Place East and
2605 22nd Avenue East
Seattle, Washington

Prepared for

Montlake LLC and Stelter Montlake LLC

January 30, 2019
19426-00

HARTCROWSER

Phase II Environmental Site Assessment

Montlake Market and Gas Station Properties

2625 East Montlake Place East and 2605 22nd Avenue East
Seattle, Washington

Prepared for

Montlake LLC and Stelter Montlake LLC

January 30, 2019
19426-00

Prepared by

Hart Crowser, Inc.

Mark Dagel, LHG
Senior Hydrogeologist
Mark.dagel@hartcrowser.com

Julie K. W. Wukelic
Senior Principal Engineer
julie.wukelic@hartcrowser.com

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Montlake Market and Gas Station Properties

2625 East Montlake Place East and 2605 22nd Avenue East
Seattle, Washington

EXECUTIVE SUMMARY

Washington State Department of Transportation (WSDOT) conducted a Supplemental Phase II environmental site assessment (Phase II) on three King County tax parcels (Properties) at the southwest corner of SR 520 and Montlake Blvd (Figure 1). The Supplemental Phase II on the Properties was the fourth Phase II conducted by WSDOT in the general area over an approximate 3-year period.

Operations on the north tax parcel (King County Tax Parcel No. 8805901085, the "Gas Station Parcel") include a gas station building, and three underground storage tanks (USTs) and pump islands. The south tax parcel (King County Tax Parcel No. 8805901090, the "Market Parcel") contains the Montlake Market supermarket building (Market). The small southwest triangular shaped tax parcel (King County Tax Parcel No. 88059010170, the "Triangle Parcel") is part of the parking lot for the Market. The Market Parcel and the Triangle Parcel together are referred to as the Market Properties to distinguish them from the Gas Station Parcel.

The WSDOT investigations detected subsurface soil exceeding MTCA cleanup levels for gasoline-related constituents in borings in a limited area within and immediately north of the Gas Station Parcel. Based on the soil and groundwater sampling and analysis, there is no evidence of soil contamination on the Market Properties that contain the Market and cell towers. Petroleum contaminated soil appears to be limited to the Gas Station Parcel where the gas station and associated UST system are located. This limited area of contamination is bounded by "clean" soil borings in which MTCA cleanup levels are not exceeded (see Figure 2). Current groundwater data is limited in areal extent and is very likely biased high since samples were not collected from properly constructed and developed monitoring wells. Nonetheless, the overall pattern of groundwater exceedances generally mirrors the soil results (see Figure 3).

Site-wide constituents of potential concern (COPCs), identified by comparing the highest detected concentrations with the MTCA cleanup levels, are limited to TPH-G, BTEX, naphthalenes, and EDC, which are consistent with release(s) of gasoline. The COPCs do not suggest releases of diesel or waste oil containing PCBs or significant carcinogenic PAHs (cPAHs).[1] Observations noted in the WSDOT boring logs and analytical result do not indicate the presence of significant free petroleum product. Taken together,

[1] There was one exceedance of heavy oil (TPH-O) in the 5-foot soil sample from boring H-19-18. This could represent a localized release of motor oil. Alternatively, since no oil sheen was noted on the boring log at this depth, the soil material consisted of dark gray, soft silt, and the analysis did not include a silica gel cleanup step, it is also possible that this result is a false positive resulting from naturally occurring organic material.

the data indicate that the site is a simple gasoline-release site of limited extent with little or no free product present.

The existing data indicate that the property could be remediated using a combination of *in-situ* methods and monitored natural attenuation (along with some limited hot-spot soil removal, if necessary) without the need to demolish the Market building or impact its operations. Based on the data, it is also likely to address site contamination without having to close the gas station other than perhaps temporarily.

We are also providing this technical document as a notice for a release under as required by Ecology's reporting requirements in WAC 173-340-300.

INTRODUCTION

This report summarizes the results from the recent supplemental Limited Phase II conducted on the Gas Station Parcel and Market Properties in December 2018, as well as the results from other Phase II Environmental Site Assessments conducted on adjacent and nearby rights-of-way (ROW). INNOVEX Environmental Management, Inc. (INNOVEX) conducted all of the Phase IIs for WSDOT.

Our report is organized as follows:

- Executive Summary;
- Introduction;
- Field Investigations;
- Site Background;
- Geology and Hydrogeology
- Contaminants of Potential Concern (COPCs) and Analytical Methods;
- Cleanup Levels
- Subsurface Soil and Groundwater Assessment;
- Conclusions;
- Recommendations;
- Limitations; and
- References

Tables 1 and 2 list the relevant constituents for the Site as well as several metals that were tested for by WSDOT's consultant but are not required under WAC 173-340-450.

Soil and groundwater analytical results are summarized in Tables 3 and 4, respectively. Figure 1 is a Vicinity Map showing the location of the Property. A site plan showing boring locations is presented on Figure 2. Chemical data quality review and laboratory reports are presented in Appendix A. Field exploration methods and soil boring logs are not provided in the Appendices but can be found each technical report listed under references.

FIELD INVESTIGATIONS

The field investigations were conducted during four separate events by WSDOT between 2016 and 2018. The most recent investigation was conducted on the Gas Station Parcel and Market Properties while the other three previous investigations were conducted outside those property boundaries.

The general outline of the work completed was as follows:

- Twenty-one borings were advanced for environmental purposes by hollow-stem auger or sonic drill method to depths of 15 to 50 feet between 2016 and 2018.
- Six of the twenty-one borings were advanced on the Gas Station Parcel and Market Properties.
- Fifteen of the twenty-one borings were advanced outside of the Gas Station Parcel and Market Properties boundaries.
- Approximately 137 soil samples were collected and screened from twenty-one borings advanced for environmental purposes by hollow-stem auger or sonic drill method to depths of 15 to 50 feet.
- Soil samples were collected and screened from three geotechnical borings advanced in 2015 and 2016 to depths of 50 to 75 feet.
- Forty-two soil samples were submitted for chemical analysis.
- Eleven grab groundwater samples were collected from temporary wells in 11 borings and submitted for chemical analyses.

No permanent monitoring wells were installed in any of the 21 environmental borings advanced. No free product was noted in any of the borings.

SITE BACKGROUND

Site Description

The study area encompassed the Gas Station Parcel (2625 East Montlake Place East) and Market Properties (2605 22nd Avenue East) as well as the adjacent and nearby City of Seattle and WSDOT SR 520 ROWs and undeveloped land within the ROWs (Figure 1). Most of the borings were advanced between the intersection of East Montlake Place East/East Lake Washington Blvd and East Roanoke Street within an approximate 2- to 3-acre area south of SR 520, including six borings on the Gas Station Parcel and Market Properties. Residences are located south of East Roanoke Street and across East Montlake Place East to the east.

Site History

The general area was undeveloped in the late 1800s and early 1900s though East Montlake Place East was visible in historical topographic maps within that timeframe. By 1930, the roads and a large percentage of the nearby residential structures to the east, south, and southwest are located as they are today. In 1930, the three properties that currently house the Gas Station and Market contain a smaller gas station structure on the north property and retail structure in the southeast corner of the south property where the Market is currently located. Also, in 1930, across West Montlake Place (current location of the on- and off-ramp to SR520) to the northwest, were a gas station, wash rack, and retail structure. The general area and roadways have remained generally the same except for the area where the structures and businesses to the northwest of West Montlake Place were located and were removed and graded during the development of the SR520 in the early 1960s. The current structure on the Gas Station Parcel was constructed in 1952 and the Market building was constructed in 1952. Several renovations have occurred to these buildings since then, but they have generally remained the same. Several blocks to the west/southwest, is City of Seattle community center and playfield.

There are three active single-wall, steel-lined USTs containing gasoline on the Gas Station Parcel. The sizes of these USTs range from 6,000 to 10,000 gallons. They were installed in 1952, 1962, and 1975 and have been upgraded throughout their use to be compliant with current UST regulations. The Washington State Department of Ecology (Ecology) has conducted several inspections on the USTs over the past 15 years. They are also regulatory tightness and system leak tested regularly in accordance with Ecology's UST regulations. A 300-gallon waste oil UST was decommissioned in-place in 2000. A UST site assessment conducted at the time of decommissioning that included samples from below this UST and surficial impacts in the shallow soil above the tank by the former fill port indicated no impacts directly below the UST. Approximately 1 ton of impacted soil from above the tank was removed and disposed of off-site at the time of decommissioning. The UST decommissioning was conducted in accordance with the Ecology UST regulations and all documentation was submitted to Ecology.

Geology and Hydrogeology

The Site lies within the Puget Sound Lowland, which consists of a broad, low-lying region situated between the Cascade Range to the east and the Olympic Mountains to the west. The Lowland depression is underlain by Tertiary volcanic and sedimentary bedrock and is filled to the present-day land surface with Quaternary glacial and non-glacial sediments. The Puget Sound Lowland's present-day geomorphic features can be attributed to the last continental glacier, the Cordilleran ice sheet, which covered the region during the Fraser Glaciation. The ice sheet advanced from British Columbia 18,000 years ago to just south of Olympia and disappeared approximately 10,000 years ago (Lasmanis, 1991).

The site lies at an elevation of about 45 feet (estimated from Google Earth Pro). Topography in the vicinity of the site slopes westward toward Portage Bay, eastward toward Lake Washington, and northward toward the Montlake Cut.

Boring logs indicate that the site is underlain to a depth of at least 25 feet by fine-grained soils (including some fill) consisting generally of silty clays, sandy silts, and silty sands. Based on an initial interpretation of

boring logs, it appears that the site is underlain by overconsolidated glacial till (silty sand with some gravel) at depths of about 20+ feet; the till is overlain primarily by discontinuous layers silty clays, sandy silts, and silty sands with some lenses of cleaner sands. Saturated soils and water table conditions (likely perched) have typically been encountered around 20 to 25 feet below land surface.

Without monitoring wells, it is not possible to accurately characterize groundwater at the site, including whether a continuous water table aquifer is present or whether the groundwater encountered in previous borings represents isolated, discontinuous perched zones. In general, shallow groundwater would be expected for follow topography. However, the site itself is fairly flat and the general vicinity slopes to the west, north, and east. In addition, significant artificial cuts associated with the SR-520 on ramp further complicate the picture.

Existing subsurface data suggests that there would be very limited migration of contamination via groundwater. Shallow groundwater that has been encountered and sampled beneath the site appears to be limited to isolated perched zones overlying glacial till and occurs in fine-grained units with low hydraulic conductivity. The glacial till underlying the site would protect groundwater resources lying beneath the till.

CONTAMINANTS OF POTENTIAL CONCERN (COPCs) AND ANALYTICAL METHODS

Based on the Site and vicinity's past history, petroleum hydrocarbons and related constituents are identified as the COPCs for the Site. The constituents and analytical methods used on submitted soil and groundwater samples for chemical analysis included:

- Hydrocarbon Identification (HCID) – Northwest Total Petroleum Hydrocarbon (NWTPH)-HCID (soil and water)
- Gasoline-range petroleum hydrocarbons – NWTPH – Gx (soil and water)
- Diesel-range and Oil-range petroleum hydrocarbons – NWTPH – Dx (soil and water)
- Volatile Organic Compounds (VOCs) – EPA Method 8260 (soil and water)
- Semi-volatile Organic Compounds (SVOCs) – EPA Method 8270 (soil and water)
- Priority Pollutant Metals (PP-13) – EPA Method 6010 (soil and water)
- Polychlorinated Biphenyls (PCBs) – EPA Method 8082 (soil and water)

The laboratory reports and quality assurance/quality control (QA/QC) review for the soil and groundwater samples analyzed by WSDOT's contractor are included in the referenced data reports for each separate sampling event. Hart Crowser's laboratory reports are included in Appendix A. Tables 2 and 3 summarize the detections only of WSDOT contractor's and Hart Crowser's soil and groundwater results discussed in this report. Data validation for the Hart Crowser chemical results as well as the laboratory results are included in Appendix A.

CLEANUP LEVELS

MTCA Cleanup Levels

Washington's Model Toxics Control Act regulations (Chapter 173-340 WAC) provide testing requirements for soil and groundwater and lay out specific procedures for setting cleanup levels at petroleum contaminated sites.

Testing Requirements

WAC 173-340-450 requires that soil and groundwater at petroleum contaminated sites be analyzed for various constituents—depending upon the type of petroleum product(s) released—on the requirements shown in MTCA Table 830-1. Tables 1 and 2 in our report list the relevant constituents for the subject site. (These tables also list several metals that were tested for by WSDOT's consultant but are not required under WAC 173-340-450.)

Cleanup Levels

WAC 173-340-700(8)(b)(i) indicates that MTCA Method A cleanup levels are appropriate for assessing of total petroleum hydrocarbons (TPH) and associated hazardous substances at petroleum sites that have few hazardous substances and that that are undergoing a routine cleanup action or where numerical standards are available for all indicator hazardous substances in the media for which the Method A cleanup level is being used. The site must also qualify for exclusion from a terrestrial ecological evaluation. The subject site meets these criteria; therefore, Method A cleanup levels for soil and groundwater are appropriate. WSDOT's consultant also analyzed for several metals in soil and groundwater. Except for lead, these constituents are not generally required to be tested for at petroleum sites and some do not have Method A cleanup levels. For those constituents where Method A levels are not available, Method B cleanup levels are used as a point of comparison since Method B levels are applicable to all sites (including petroleum and non-petroleum sites), per WAC 173-340-705. Tables 1 and 2 in our report list the applicable cleanup levels and the basis for their selection for all constituents.

SUBSURFACE SOIL AND GROUNDWATER ASSESSMENT

In 2016, analytical results from soil samples collected from three nearby geotechnical borings advanced in 2015 and 2016 within the 3-acre study area, were presented to WSDOT's environmental consultant. There were no detections of petroleum in any of the soil samples analyzed. A groundwater sample from one of the borings was also detected and it had low concentrations of gasoline and xylenes in the sample. This geotechnical boring was located near the former gas station to the northwest of the study area. All of the soil and groundwater sample results were below MTCA cleanup levels.

WSDOT's contractor advanced five environmental borings (H-1-16 through H-5-16) in October 2016 to depths of 17.4 to 50 feet along the outer west/north/east boundaries (within 10-20 feet) of the Gas Station Parcel and Market Properties. A total of 40 soil samples were collected and screened and 20 soil samples were selected for chemical analysis (TPH, VOCs, SVOCs, PCBs, Metals). Odors were noted in 4 of

the borings though only one boring had a soil sample (out of three analyzed) with an exceedance above MTCA cleanup levels for benzene. A grab groundwater sample from a temporary well in the boring also had an exceedance of benzene. None of the other 19 soil samples analyzed had detections above MTCA cleanup levels. All of the soil and groundwater sample results were below MTCA cleanup levels.

In October 2017, five additional environmental borings (H-6-17 through H-10-17) were advanced by WSDOT's contractor to depths of 30 to 50 feet further northwest/north/northeast/east of the previous 2016 borings. They are approximately 80 to 100 feet from the Gas Station Parcel and Market Properties boundaries. Forty-one soil samples were collected and screened and six soil samples were submitted for chemical analysis ((TPH, VOCs, SVOCs, PCBs, Metals). No odors or elevated PID readings were noted except PID readings in H-7-17. All of the soil samples were non-detect (below the laboratory detection limits) except for the soil sample from H-7-17) that had low concentrations petroleum-related VOCs and SVOCs and below MTCA cleanup levels. No groundwater samples were collected from any of the borings. All of the soil sample results were below MTCA cleanup levels.

Five more environmental borings (H-11-18 through H-15-18) were advanced in May 2018 by WSDOT's contractor to depths of 20 to 30 feet. The borings were located along the outer east/southeast/south boundaries (within 10-20 feet) of the Gas Station Parcel and Market Properties. A total of 27 soil samples were collected and screened and 6 soil samples were selected for chemical analysis (TPH, VOCs, SVOCs, PCBs, Metals). No odors or elevated PID readings were noted in any of the soil samples. Three grab groundwater samples were collected from temporary wells at depths of 23 to 28 feet. Analytical results indicated low detections of petroleum in the lube oil range, SVOCs, and metals in two of the three groundwater samples and only low concentrations of SVOCs and metals in the third groundwater sample. All of the soil and groundwater sample results were below MTCA cleanup levels.

In December 2018, six environmental borings were advanced by WSDOT's contractor within the property boundaries of the Gas Station Parcel and Market Properties. Hart Crowser personnel were also on site during the drilling and sampling. Hart Crowser collected and screened split soil samples when sufficient soil volume was available. Soil samples were also collected from the drill cuttings when sufficient soil volume was not available from the split-spoon to split. The six borings were advanced to depths of 20 to 26 feet. Groundwater was noted in the six borings at depths of 15 to 20 feet. A total of 29 soil samples were collected and screened from the six borings. Elevated PID readings were noted in four (H-16-18, H-17-18, H-19-18, and H-20-18) of the six borings. No PID readings were noted in H-18-18 or H-21-18. One soil sample and one grab groundwater sample (from temporary wells) from each boring were submitted for chemical analysis (TPH-G, TPH-D, VOCs, SVOCs, Metals) by WSDOT's contractor. Two additional soil samples from H-16-18 and H-19-18 were submitted for chemical analysis. Hart Crowser also submitted 16 soil samples from the split and drill cutting soil samples from all 6 soil borings and one grab groundwater sample from H-21-18.

The highest Photoionization detector (PID) soil field screening readings by Hart Crowser were of the soil samples from boring H-16-18, which was located closest to the USTs in the Gas Station Parcel. All of the soil samples (5) analyzed in this boring (to a maximum depth of 26 feet) exceeded the MTCA Method A unrestricted cleanup levels for TPH-G and/or benzene.

The second highest PID soil field screening readings on soil samples collected were from boring H-19-18, which is also in the Gas Station Parcel near the gasoline pumps in the northeast area of the Property. However, none of the three soil samples Hart Crowser analyzed had concentrations of TPH-G or benzene exceeding MTCA Method A unrestricted cleanup levels though WSDOT contractor's results indicated two of three soil samples analyzed had exceedances of TPH-G and benzene exceeding MTCA Method A unrestricted cleanup levels.

Boring H-17-18, also located in the north end of the Gas Station Parcel and near the gas station USTs, had lower PID readings though 2 of the 5 soil samples analyzed and had exceedances above MTCA Method A unrestricted cleanup levels for TPH-G and benzene in both Hart Crowser and WSDOT contractor's results.

The soil samples from boring H-18-18, located on the southerly side of the Gas Station Parcel adjacent of the Market, had no indications of petroleum impacts (e.g. no odors, no PID readings) during sampling. The one soil sample submitted for chemical analyses by Hart Crowser did not contain any detections of petroleum-related constituents above the laboratory limits and WSDOT's contractor indicated no exceedances of MTCA cleanup levels.

Two other borings (H-20-18 and H-21-18) were advanced southwest of the gas station USTs and west of the Market. Only one soil sample analyzed by Hart Crowser from these two borings had petroleum-related constituents above MTCA Method A unrestricted cleanup levels; HC-20-18 at a depth of approximately 10 feet had an exceedance of benzene. WSDOT's contractor also indicated an exceedance of MTCA cleanup levels for a soil sample at this depth. One grab groundwater sample that was collected and analyzed by Hart Crowser was from H-21-18. Low TPH-G and benzene concentrations were detected, but below MTCA Method A cleanup levels. WSDOT contractor's grab groundwater samples from all six borings indicated exceedances of TPH or benzene (or both) above MTCA Method cleanup levels.

CONCLUSIONS

Based on the available data, soil contamination appears to be limited to the Gas Station Parcel, is not a significant threat to the Market on the Market Properties or surrounding area. It appears to be simple gasoline site with residual petroleum contamination in soil but limited or no free product. In addition, there is no evidence of soil contamination on the Market Properties that contains the Market and cell towers. The site can be remediated without demolishing or impacting the Market building or its operations. And, given the current data, a remediation plan under MTCA could also be conducted on the site without having to close the gas station. In addition, the adjacent and nearby parcels have been minimally affected and limited to areas north of the Gas Station Parcel. Based on the existing data, there has been no soil impacts to the residential areas to the northeast, east, south, and southwest or the Montlake community center and playfield to the southwest and groundwater impacts in these areas are extremely unlikely.

RECOMMENDATIONS

We recommend installing permanent groundwater monitoring wells on the site to further characterize and monitor groundwater quality; conduct a vapor intrusion analysis per Ecology's current guidance; and evaluate preliminary MTCA-compliant remediation alternatives. Th preliminary remediation evaluation may also include additional soil and groundwater characterization to confirm the current data.

LIMITATIONS

Work for this project was performed, and this report prepared, in accordance with generally accepted professional practices for the nature and conditions of the work completed in the same or similar localities, at the time the work was performed. It is intended for the exclusive use of Montlake LLC and Stelter Montlake LLC for specific application to the referenced property. This report is not meant to represent a legal opinion. No other warranty, express or implied, is made.

The MTCA cleanup levels included in this report are provided for comparison purposes only and are based on our understanding of cleanup levels required by Ecology for similar projects. They do not represent MTCA interpretations.

Please call if you have any questions regarding our work and this report, the presentation of the information, or the interpretation of the data.

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Table 1 - Identification of Soil Constituents of Potential Concern

Constituent	Max. detected conc. (mg/kg)	MTCA Cleanup Level (mg/kg)	Cleanup Level Basis	Notes	Constituent of Potential Concern?
Petroleum Hydrocarbons					
TPH-Gasoline	5600	30	Method A		Yes
TPH-Diesel	ND	2000	Method A		No
TPH-Heavy Oil	6000	2000	Method A		Yes
Aromatic Compounds					
Benzene	1.4	0.03	Method A		Yes
Toluene	7.3	7	Method A		Yes
Ethylbenzne	17	6	Method A		Yes
Xylenes	80	9	Method A		Yes
Fuel Additives/Blending Compounds (halgenated VOCs)					
1,2-Dichoroethane (EDC)	ND	11/0.023	Method B/GWP		No
1,2-Dibromomethane (EDB)	ND	0.005	Method A		No
Naphthalenes					
Naphthalene	11	5	Method A	Cleanup level based on total of naphthalene and 1- and 2-methylnaphthalene	Yes
1-Methylnaphthalene	1.4				
2-Methylnaphthalene	2.7				
Total naphthalenes (calc'd)	15.1				
Carcinogenic Polyaromatic Hydrocarbons (cPAHs)					
Benzo(a)pyrene	0.02	0.1	Method A	Cleanup level based on calculated toxicity equivalency factor (TEF) for cPAHs (MTCA Table 708-2)	No
Chrysene	0.29				No
Dibenzo(a,h)anthracene	ND				No
Indeno(1,2,3-cd)pyrene	0.013				No
Benzo(k)fluoranthene	ND				No
Benzo(a)anthracene	0.017				No
Benzo(b)fluoranthene	0.02				No
Total cPAH (TEF) (calc'd)	0.0279				
Polychlorinated Biphenyls (PCBs)					
PCBs	ND	1	Method A	Cleanup level based on total PCBs	No
Metals					
Arsenic	ND	20	Method A		No
Barium	200	1600/1650	Method B/GWP		No
Cadmium	ND	2	Method A		No
Chromium	140	2000	Method A	Cleanup level based on trivalent Cr	No
Copper	46	3200/284	Method B/GWP		No
Lead	8.5	250	Method A		No
Mercury	ND	2	Method A		No
Nickel	69	1600/130	Method B/GWP		No
Selenium	ND	400/5.2	Method B/GWP		No
Silver	ND	400/13.6	Method B/GWP		No

Notes:
Shading indicates constituent of potential concern
ND = not detected
Constituents shown include those listed in MTCA Table 830-1 (Required Testing for Petroleum Releases) for which results are available.
Method A soil cleanup levels for unrestricted land uses shown where available; these are appropriate for sites undergoing routine cleanup actions or for sites with relatively few hazardous substances and site qualifies under MTCA for exclusion from simplified or site-specific terrestrial ecological evaluation. Subject site meets these criteria.
Method B cleaup levels (based on direct contact/ingestion and groundwater protection [GWP]) are shown where Method A level is unavailable. Method B levels are appropriate for all cleanup sites.
PCB results reflect analysis of individual Aroclors 1016, 1212 1232, 1242, 1248, 1254, 1260.

Data sources:
Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington, December 8, 2016, Innovex Environmental Management.
Supplemental Limited Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Ramps to Montlake Vicinity, Seattle, Washington, February 28, 2018, Innovex Environmental Management.
Second Supplemental Limited Phase II Environmental Site Assessment, State Route 520 and East Montlake Place East Vicinity Properties, Seattle, Washington June 15, 2018, Innovex Environmental Management.
Third Supplemental Limited Phase II Environmental Site Assessment, 2625 East Montlake Place East, Seattle, Washington, January 16, 2019, Innovex Environmental Management.

Table 2 - Identification of Groundwater Constituents of Potential Concern

Constituent	Max. detected conc. (ug/L)	MTCA Cleanup Level	Cleanup Level Basis	Notes	Constituent of Potential Concern?
Petroleum Hydrocarbons					
TPH-Gasoline	110000	800	Method A		Possible (results suspect: high turbidity)
TPH-Diesel	690	500	Method A		Unlikely (not a soil CPOC and groundwater results suspect: high turbidity)
TPH-Heavy Oil	380	500	Method A		No
Aromatic Compounds					
Benzene	5300	5	Method A		Possible (results suspect: high turbidity)
Toluene	2000	1000	Method A		Possible (results suspect: high turbidity)
Ethylbenzne	4600	700	Method A		Possible (results suspect: high turbidity)
Xylenes	18600	1000	Method A		Possible (results suspect: high turbidity)
Fuel Additives/Blending Compounds (halgenated VOCs)					
1,2-Dichoroethane (EDC)	19	5	Method A		Possible (results suspect: high turbidity)
1,2-Dibromomethane (EDB)	ND	0.01	Method A		No
Naphthalenes					
Naphthalene	970	160	Method A	Cleanup level based on total of naphthalene and 1- and 2-methylnaphthalene	Possible (results suspect: high turbidity)
1-Methylnaphthalene	72				
2-Methylnaphthalene	150				
Total naphthalenes (calc'd)	1192				
Carcinogenic Polyaromatic Hydrocarbons (cPAHs)					
Benzo(a)pyrene	0.02	0.1	Method A	Cleanup level based on calculated toxicity equivalency factor (TEF) for cPAHs (MTCA Table 708-2)	No
Chrysene	0.035				No
Dibenzo(a,h)anthracene	ND				No
Indeno(1,2,3-cd)pyrene	0.017				No
Benzo(k)fluoranthene	ND				No
Benzo(a)anthracene	0.027				No
Benzo(b)fluoranthene	0.029				No
Total cPAH (TEF) (calc'd)	0.02765				
Polychlorinated Biphenyls (PCBs)					
PCBs	ND	1	Method A	Based on total PCBs	No
Metals (dissolved [lab filtered])					
Arsenic	32	5	Method A		No
Barium	150	3200	Method B		No
Cadmium	ND	5	Method A		No
Chromium	ND	50	Method A	Based on total Cr	No
Lead	1.7	15	Method A		No
Mercury	ND	2	Method A		No
Selenium	ND	80	Method B		No
Silver	ND	80	Method B		No

Notes:
Shading indicates possible constituent of potential concern
ND = not detected
NA = not analyzed
Constituents shown include those listed in MTCA Table 830-1 (Required Testing for Petroleum Releases) for which results are available.
Method A groundwater cleanup levels shown where available; these are appropriate for sites undergoing routine cleanup actions or for sites with relatively few hazardous substances and site qualifies under MTCA for exclusion from simplified or site-specific terrestrial ecological evaluation. Subject site meets these criteria.
Method B cleaup levels are shown where Method A level is unavailable. Method B levels are appropriate for all cleanup sites.
PCB results reflect analysis of individual Aroclors 1016, 1212 1232, 1242, 1248, 1254, 1260.
Groundwater samples were collected using pumps and bailers from undeveloped temporary well screens placed in sonic borings. Given fine-grained soil materials and in light of highly discordant filtered/unfiltered metals results we conclude samples were likely highly turbid and unfiltered metals are unsuitable for comparison to cleanup levels. Unfiltered TPH/organic results are also likely biased high and suitable only for "one-sided" comparison to cleanup levels.

Data sources:
Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington, December 8, 2016, Innovex Environmental Management.
Supplemental Limited Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Ramps to Montlake Vicinity, Seattle, Washington, February 28, 2018, Innovex Environmental Management.
Second Supplemental Limited Phase II Environmental Site Assessment, State Route 520 and East Montlake Place East Vicinity Properties, Seattle, Washington June 15, 2018, Innovex Environmental Management.
Third Supplemental Limited Phase II Environmental Site Assessment, 2625 East Montlake Place East, Seattle, Washington, January 16, 2019, Innovex Environmental Management.

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID Sampling Date Depth in Feet	MTCA Method A Cleanup Level [a]	HC-16-18 SS-1 12/3/2018 5-6.5	HC-16-18 SS-2 12/3/2018 11.5-13	HC-16-18 SS-3 12/3/2018 15-16.5	HC-16-18 SC-1 12/3/2018 20	HC-16-18 SS-4 12/3/2018 25-26.5	HC-17-18 SS-1 12/4/2018 10-11.5	HC-17-18 SS-2 12/4/2018 15-16.5	HC-17-18 SS-3 12/4/2018 20-21.5	HC-18-18 SC3 12/6/2018 24.5	HC-19-18 SS2 12/6/2018 15-16.5
TPH in mg/kg											
Diesel/Fuel oil	2000	ND	ND	ND	ND	ND	ND	ND	ND		
Heavy oil	2000	ND	ND	ND	ND	ND	ND	ND	ND		
Gasoline	30/100 [c]	11	900	58	1600	41	44		9.3	ND	23
BTEX in mg/kg											
Benzene	0.03	0.15				0.096				ND	
Toluene	7	ND				ND				ND	
Ethylbenzene	6	ND				0.49				ND	
Xylenes	9	ND				0.82				ND	
Metals in mg/kg											
Arsenic (As)	20										
Barium (Ba)	1600 [b]										
Cadmium (Cd)	2										
Chromium (Cr)	19/2000 [d]										
Copper (Cu)	3200 [b]										
Lead (Pb)	250										
Mercury (Hg)	2										
Nickel (Ni)	1600 [b]										
Selenium (Se)	400 [b]										
Silver (Ag)	400 [b]										
Zinc (Zn)											
Volatiles in mg/kg											
1,2,4-Trimethylbenzene			2.3	2.1	31		1.6		0.46		0.86
1,3,5-Trimethylbenzene			2	0.48	11		0.43		0.13		0.26
Benzene	0.03		5	0.98	1.2		0.094		0.33		ND
Ethylbenzene	6		34	2.8	15		0.65		0.17		0.19
Isopropylbenzene			5.1	0.25	1.5		0.059		0.061		ND
Isopropyltoluene			1.1	0.053	0.57		0.17		ND		ND
Naphthalene	5										
n-Butylbenzene			6.8	0.44	2.3		0.21		0.16		0.12
n-Propylbenzene			20	1.2	7.6		0.3		0.22		0.13
sec-Butylbenzene			2.4	0.14	0.79		ND		ND		ND
Toluene	7		0.48	0.081	0.53		ND		ND		ND
Xylenes	9		1.8	2	51		2.2		0.36		0.78
Semivolatiles in mg/kg											
1-Methylnaphthalene			0.63		1.1		ND		ND		
2-Methylnaphthalene			1		2.4		ND		ND		
Naphthalene	5		0.16		4.6		ND		ND		

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID Sampling Date Depth in Feet	MTCA Method A Cleanup Level [a]	HC-19-18 SS3 12/6/2018 20-21.5	HC-19-18 SC1 12/6/2018 19.5	HC-20-18 SS1 12/6/2018 10-11.5	HC-20-18 SS3 12/6/2018 20-21.5	HC-21-18 SS1 12/6/2018 10-11.5	HC-21-18 SC3 12/6/2018 16.5	Innovex H-11-18 5/25/2018 10	Innovex H-12-18 5/17/2018 20	Innovex H-13-18 5/17/2018 15	Innovex H-14-18 5/26/2018 10
TPH in mg/kg											
Diesel/Fuel oil	2000		ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy oil	2000		ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	30/100 [c]	16	6.8	8.8	ND	ND		ND	ND	ND	ND
BTEX in mg/kg											
Benzene	0.03					ND					
Toluene	7					ND					
Ethylbenzene	6					ND					
Xylenes	9					ND					
Metals in mg/kg											
Arsenic (As)	20							ND	ND	ND	ND
Barium (Ba)	1600 [b]							46	73	58	110
Cadmium (Cd)	2							ND	ND	ND	ND
Chromium (Cr)	19/2000 [d]							48	140	43	68
Copper (Cu)	3200 [b]										
Lead (Pb)	250							ND	ND	ND	ND
Mercury (Hg)	2							ND	ND	ND	ND
Nickel (Ni)	1600 [b]										
Selenium (Se)	400 [b]							ND	ND	ND	ND
Silver (Ag)	400 [b]							ND	ND	ND	ND
Zinc (Zn)											
Volatiles in mg/kg											
1,2,4-Trimethylbenzene		0.53	0.19	0.14	ND		ND	ND	ND	ND	ND
1,3,5-Trimethylbenzene		0.21	0.17	0.14	ND		ND	ND	ND	ND	ND
Benzene	0.03	ND	ND	1.1	ND		ND	ND	ND	ND	ND
Ethylbenzene	6	0.15	0.068	0.34	ND		ND	ND	ND	ND	ND
Isopropylbenzene		0.064	0.057	0.059	ND			ND	ND	ND	ND
Isopropyltoluene								ND	ND	ND	ND
Naphthalene	5							ND	ND	ND	ND
n-Butylbenzene		0.23	0.18	0.18	ND		ND	ND	ND	ND	ND
n-Propylbenzene		0.14	0.11	0.25	ND		ND	ND	ND	ND	ND
sec-Butylbenzene								ND	ND	ND	ND
Toluene	7	ND	ND	1.1	ND		ND	ND	ND	ND	ND
Xylenes	9	0.65	0.21	0.15	ND		ND	ND	ND	ND	ND
Semivolatiles in mg/kg											
1-Methylnaphthalene								ND	ND	ND	ND
2-Methylnaphthalene								ND	ND	ND	ND
Naphthalene	5							ND	ND	ND	ND

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID Sampling Date Depth in Feet	MTCA Method A Cleanup Level [a]	Innovex H-15-18 5/26/2018 15	Innovex H-15-18 5/26/2018 25	Innovex H-16-18 12/3/2018 10	Innovex H-16-18 12/3/2018 15	Innovex H-16-18 12/4/2018 25	Innovex H-17-18 12/4/2018 10	Innovex H-18-18 12/5/2018 25	Innovex H-19-18 12/6/2018 5	Innovex H-19-18 12/6/2018 15	Innovex H-19-18 12/6/2018 25
TPH in mg/kg											
Diesel/Fuel oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy oil	2000	ND	ND	ND	ND	ND	ND	59	6000	82	ND
Gasoline	30/100 [c]	ND	ND	15	130	17	180	ND	3100	5600	ND
BTEX in mg/kg											
Benzene	0.03										
Toluene	7										
Ethylbenzene	6										
Xylenes	9										
Metals in mg/kg											
Arsenic (As)	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Barium (Ba)	1600 [b]	50	35	200	92	48	110	56	100	76	57
Cadmium (Cd)	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Chromium (Cr)	19/2000 [d]	37	25	81	63	35	66	120	35	53	49
Copper (Cu)	3200 [b]										
Lead (Pb)	250	ND	ND	8.5	ND	ND	ND	ND	13	8.2	6
Mercury (Hg)	2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nickel (Ni)	1600 [b]										
Selenium (Se)	400 [b]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Silver (Ag)	400 [b]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Zinc (Zn)											
Volatiles in mg/kg											
1,2,4-Trimethylbenzene		ND	ND								
1,3,5-Trimethylbenzene		ND	ND								
Benzene	0.03	ND	ND	1.4	0.5	0.17	0.098	ND	0.27	1.3	0.005
Ethylbenzene	6	ND	ND	1.8	2.6	0.91	0.33	ND	2.7	17	0.023
Isopropylbenzene		ND	ND								
Isopropyltoluene		ND	ND								
Naphthalene	5	ND	ND	0.099	1.8	0.45	0.32	ND	4.4	11	0.0063
n-Butylbenzene		ND	ND								
n-Propylbenzene		ND	ND								
sec-Butylbenzene		ND	ND								
Toluene	7	ND	ND	ND	ND	ND	ND	ND	ND	7.3	0.017
Xylenes	9	ND	ND	ND	3.6	2.34	ND	ND	23.8	80	0.123
Semivolatiles in mg/kg											
1-Methylnaphthalene		ND	ND								
2-Methylnaphthalene		ND	ND								
Naphthalene	5	ND	ND	1.1	2.4	0.41	0.023	ND	6.7	3.7	0.46

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID	MTCA Method A Cleanup Level [a]	Innovex H-20-18	Innovex H-21-18	Innovex H-21-18	Innovex H-1-16	Innovex H-2-16	Innovex H-3-16	Innovex H-3-16	Innovex H-3-16	Innovex H-4-16	Innovex H-4-16
Sampling Date		12/6/2018	12/6/2018	12/6/2018	10/6/2016	10/7/2016	10/7/2016	10/7/2016	10/7/2016	10/8/2016	10/8/2016
Depth in Feet		10	20	20	10	13.5	3	6	8.5	3	6
				Dup of H-21-18-20							
TPH in mg/kg											
Diesel/Fuel oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	30/100 [c]	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BTEX in mg/kg											
Benzene	0.03										
Toluene	7										
Ethylbenzene	6										
Xylenes	9										
Metals in mg/kg											
Arsenic (As)	20	ND	ND	ND							
Barium (Ba)	1600 [b]	130	52	55							
Cadmium (Cd)	2	ND	ND	ND							
Chromium (Cr)	19/2000 [d]	58	52	52	36	37	28	27	29		
Copper (Cu)	3200 [b]				8.4	24	13	11	8.6		
Lead (Pb)	250	ND	ND	ND	ND	11	ND	ND	ND		
Mercury (Hg)	2	ND	ND	ND							
Nickel (Ni)	1600 [b]				27	36	33	30	24		
Selenium (Se)	400 [b]	ND	ND	ND							
Silver (Ag)	400 [b]	ND	ND	ND							
Zinc (Zn)					20	56	26	24	26		
Volatiles in mg/kg											
1,2,4-Trimethylbenzene											
1,3,5-Trimethylbenzene											
Benzene	0.03	0.93	ND	ND	ND	0.0053	0.0053	ND	0.038	ND	0.024
Ethylbenzene	6	0.034	ND	ND	ND	ND	ND	ND	0.005	ND	ND
Isopropylbenzene											
Isopropyltoluene											
Naphthalene	5	ND	ND	ND	ND	ND	ND	ND	ND		
n-Butylbenzene											
n-Propylbenzene											
sec-Butylbenzene											
Toluene	7	0.028	ND	ND	ND	ND	ND	ND	ND	ND	ND
Xylenes	9	0.0261	ND	ND	ND	ND	ND	ND	0.016	ND	ND
Semivolatiles in mg/kg											
1-Methylnaphthalene					ND	ND			0.013		
2-Methylnaphthalene					ND	ND			0.018		
Naphthalene	5	ND	ND	ND	ND	0.0096			ND		

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID Sampling Date Depth in Feet	MTCA Method A Cleanup Level [a]	Innovex H-4-16 10/8/2016 8.5	Innovex H-4-16 10/8/2016 11	Innovex H-4-16 10/8/2016 16	Innovex H-4-16 10/8/2016 18.5	Innovex H-4-16 10/8/2016 19.9	Innovex H-4-16 10/8/2016 25.4	Innovex H-5-16 10/8/2016 3	Innovex H-5-16 10/8/2016 6	Innovex H-5-16 10/8/2016 8.5	Innovex H-5-16 10/8/2016 11
TPH in mg/kg											
Diesel/Fuel oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	30/100 [c]	ND	ND	69	30	99	ND	ND	ND	ND	ND
BTEX in mg/kg											
Benzene	0.03										
Toluene	7										
Ethylbenzene	6										
Xylenes	9										
Metals in mg/kg											
Arsenic (As)	20										
Barium (Ba)	1600 [b]										
Cadmium (Cd)	2										
Chromium (Cr)	19/2000 [d]			28							
Copper (Cu)	3200 [b]			11							
Lead (Pb)	250			ND							
Mercury (Hg)	2										
Nickel (Ni)	1600 [b]			30							
Selenium (Se)	400 [b]										
Silver (Ag)	400 [b]										
Zinc (Zn)				24							
Volatiles in mg/kg											
1,2,4-Trimethylbenzene											
1,3,5-Trimethylbenzene											
Benzene	0.03	0.045	0.026	ND	0.13	0.35	0.092				
Ethylbenzene	6	ND	ND	0.55	0.76	1.4	ND				
Isopropylbenzene											
Isopropyltoluene											
Naphthalene	5			ND							
n-Butylbenzene											
n-Propylbenzene											
sec-Butylbenzene											
Toluene	7	ND	ND	ND	0.074	0.09	0.064				
Xylenes	9	ND	ND	1.89	2.28	2.79	0.088				
Semivolatiles in mg/kg											
1-Methylnaphthalene				0.37							
2-Methylnaphthalene				0.74							
Naphthalene	5			0.59							

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID	MTCA Method A Cleanup Level [a]	Innovex H-5-16	Innovex H-5-16	Innovex H-5-16	Innovex H-6-17	Innovex H-9-17	Innovex H-10-17	Innovex H-8-17	Innovex H-7-17	Innovex H-7-17
Sampling Date		10/8/2016	10/8/2016	10/8/2016	10/22/2017	10/21/2017	10/22/2017	10/24/2017	10/23/2017	10/23/2017
Depth in Feet		13.5	16	18.5	15	15	10	5	10	20
TPH in mg/kg										
Diesel/Fuel oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Heavy oil	2000	ND	ND	ND	ND	ND	ND	ND	ND	ND
Gasoline	30/100 [c]	ND	ND	ND	ND	ND	ND	ND	ND	ND
BTEX in mg/kg										
Benzene	0.03									
Toluene	7									
Ethylbenzene	6									
Xylenes	9									
Metals in mg/kg										
Arsenic (As)	20				ND	ND	ND	ND	ND	ND
Barium (Ba)	1600 [b]				47	63	35	69	59	42
Cadmium (Cd)	2				ND	ND	ND	ND	ND	ND
Chromium (Cr)	19/2000 [d]	64			33	37	27	35	37	35
Copper (Cu)	3200 [b]	46								
Lead (Pb)	250	ND			ND	ND	ND	ND	6	ND
Mercury (Hg)	2				ND	ND	ND	ND	ND	ND
Nickel (Ni)	1600 [b]	69								
Selenium (Se)	400 [b]				ND	ND	ND	ND	ND	ND
Silver (Ag)	400 [b]				ND	ND	ND	ND	ND	ND
Zinc (Zn)		69								
Volatiles in mg/kg										
1,2,4-Trimethylbenzene					ND	ND	ND	ND	ND	0.0015
1,3,5-Trimethylbenzene					ND	ND	ND	ND	ND	ND
Benzene	0.03	ND			ND	ND	ND	ND	ND	0.0096
Ethylbenzene	6	0.089			ND	ND	ND	ND	ND	0.0022
Isopropylbenzene					ND	ND	ND	ND	ND	0.0012
Isopropyltoluene					ND	ND	ND	ND	ND	ND
Naphthalene	5	0.64			ND	ND	ND	ND	ND	0.0027
n-Butylbenzene					ND	ND	ND	ND	ND	ND
n-Propylbenzene					ND	ND	ND	ND	ND	0.0035
sec-Butylbenzene					ND	ND	ND	ND	ND	ND
Toluene	7	ND			ND	ND	ND	ND	ND	ND
Xylenes	9	ND			ND	ND	ND	ND	ND	0.0024
Semivolatiles in mg/kg										
1-Methylnaphthalene		0.037								
2-Methylnaphthalene		0.35								
Naphthalene	5	0.039								

Table 3 - Analytical Results for Soil Samples - Detects Only

Sample ID Sampling Date Depth in Feet	MTCA Method A Cleanup Level [a]
TPH in mg/kg	
Diesel/Fuel oil	2000
Heavy oil	2000
Gasoline	30/100 [c]
BTEX in mg/kg	
Benzene	0.03
Toluene	7
Ethylbenzene	6
Xylenes	9
Metals in mg/kg	
Arsenic (As)	20
Barium (Ba)	1600 [b]
Cadmium (Cd)	2
Chromium (Cr)	19/2000 [d]
Copper (Cu)	3200 [b]
Lead (Pb)	250
Mercury (Hg)	2
Nickel (Ni)	1600 [b]
Selenium (Se)	400 [b]
Silver (Ag)	400 [b]
Zinc (Zn)	
Volatiles in mg/kg	
1,2,4-Trimethylbenzene	
1,3,5-Trimethylbenzene	
Benzene	0.03
Ethylbenzene	6
Isopropylbenzene	
Isopropyltoluene	
Naphthalene	5
n-Butylbenzene	
n-Propylbenzene	
sec-Butylbenzene	
Toluene	7
Xylenes	9
Semivolatiles in mg/kg	
1-Methylnaphthalene	
2-Methylnaphthalene	
Naphthalene	5

U = Not detected at reporting limit indicated.
ND = Not detected.
a. Method A soil cleanup level for unrestricted land use.
b. Method B Cleanup Level.
c. 30 mg/kg if benzene is present, otherwise, 100 mg/kg.
d. 19 mg/kg as Chromium VI/2000 mg/kg as Chromium III.

Table 4 - Analytical Results for Groundwater Samples - Detects Only

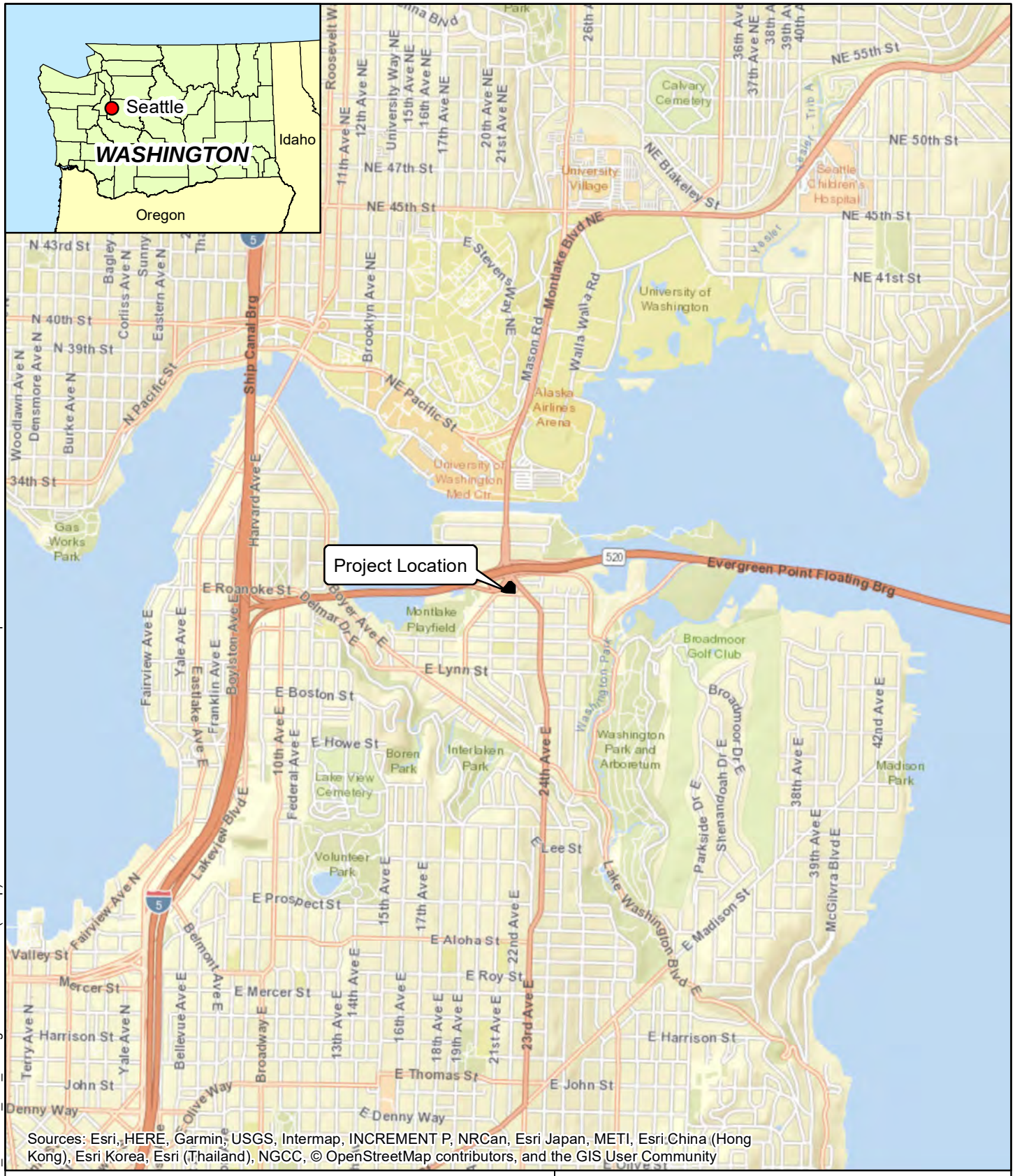
Source Sample ID Sampling Date	MTCA Method A Cleanup Level	Hart Crowser H-21-18 12/6/2018	Innovex H-16-18-GW 12/4/2018	Innovex H-17-18-GW 12/4/2018	Innovex H-18-18-GW 12/5/2018	Innovex H-19-18-GW 12/6/2018	Innovex H-20-18-GW 12/6/2018	Innovex H-21-18-GW 12/6/2018	Innovex H-22-18-GW 12/6/2018 Dup of H-21-18-GW	Innovex H-3-16 10/7/2016
Total Susp. Solids in mg/L		19000								
TPH in mg/L										
Diesel/Fuel oil	0.5	ND	ND	ND	ND	ND	0.69	ND		
Heavy oil	0.5	ND	0.00084	ND	ND	0.38	ND	ND		
Gasoline	0.8/1.0 [a]	0.59	76	8.7	1.3	110	0.59	1.7	1.8	
Dissolved Metals in mg/L										
Arsenic (As)	0.005	1.05	0.032	0.012	ND	0.0039	0.032	ND		3
Barium (Ba)	3.2 [b]	1.04	0.15	0.066	ND	0.037	0.079	ND		
Cadmium (Cd)	0.005	0.969	ND	ND	ND	ND	ND	ND		
Chromium (Cr)	0.05	0.9941	ND	ND	ND	ND	ND	ND		
Lead (Pb)	0.015	0.92	0.0017	ND	ND	0.0012	ND	ND		2.5
Mercury (Hg) (7470A)	0.002	0.00006	ND	ND	ND	ND	ND	ND		
Selenium (Se)	0.008 [b]	1.06	ND	ND	ND	ND	ND	ND		
Silver (Ag)	0.008 [b]	0.842	ND	ND	ND	ND	ND	ND		
Total Metals in mg/L										
Arsenic (As)	0.005		0.12	0.18	0.17	0.57	0.58	0.052		
Barium (Ba)	3.2 [b]		1.3	4.1	3.6	9.8	11	0.82		
Cadmium (Cd)	0.005		ND	0.0079	0.0059	0.012	0.0082	ND		
Chromium (Cr)	0.05		0.43	2.5	2.1	4.8	4.5	0.42		
Lead (Pb)	0.015		0.11	0.17	0.15	0.8	0.45	0.034		
Mercury (Hg) (7470A)	0.002		0.00053	0.0022	0.0018	0.0018	0.0006	ND		
Selenium (Se)	0.008 [b]		ND	0.059	0.016	0.076	0.046	ND		
Silver (Ag)	0.008 [b]		ND	ND	ND	ND	ND	ND		
Volatiles in µg/L										
1,2,4-Trichlorobenzene		6.9	ND	ND	ND	ND	ND	ND	ND	
1,2,4-Trimethylbenzene		17	3300	370	63	7000	4.5	100	93	
1,2-Dichloroethane (EDC)	5	ND	ND	ND	ND	ND	19	ND	ND	
1,3,5-Trimethylbenzene		4.6	910	100	16	2100	1.8	23	21	
Benzene	5	4.3	5300	2400	32	760	450	30	28	7.4
cis-1,3-Dichloropropene		7.3	ND	ND	ND	ND	ND	ND	ND	
Ethylbenzene	700	11	4600	520	84	2200	6.2	81	78	
Isopropylbenzene		1.1	170	43	4	420	15	7.7	7	
n-Butylbenzene			87	17	1.2	520	2.1	ND	ND	
n-Propylbenzene		2.2	540	110	9.9	830	30	15	14	
Toluene	1000		510	70	10	2000	7.5	26	24	
Xylenes	1000	45	18600	1710	321	12000	16.6	297	284	
Semivolatiles in µg/L										
1-Methylnaphthalene		0.12	72	16	4	21	1.8	1.5		
2-Methylnaphthalene		0.1	150	27	6.7	48	2.5	2.4		
Bis(2-Ethylhexyl)Phthalate		ND	17	ND	ND	ND	ND	24		
Naphthalene	160	0.52	570	98	33	280	1.1	8.5		

Table 4 - Analytical Results for Groundwater Samples - Detects Only

Source Sample ID Sampling Date	MTCA Method A Cleanup Level	Innovex H-11-18 5/26/2017	Innovex H-14-18 5/26/2017	Innovex H-15-18 5/26/2017
Total Susp. Solids in mg/L				
TPH in mg/L				
Diesel/Fuel oil	0.5	ND	ND	ND
Heavy oil	0.5	0.00056	0.00098	ND
Gasoline	0.8/1.0 [a]	ND	ND	ND
Dissolved Metals in mg/L				
Arsenic (As)	0.005			
Barium (Ba)	3.2 [b]			
Cadmium (Cd)	0.005			
Chromium (Cr)	0.05			
Lead (Pb)	0.015			
Mercury (Hg) (7470A)	0.002			
Selenium (Se)	0.008 [b]			
Silver (Ag)	0.008 [b]			
Total Metals in mg/L				
Arsenic (As)	0.005	0.48	0.23	0.16
Barium (Ba)	3.2 [b]	14	8.8	4.6
Cadmium (Cd)	0.005	0.013	ND	ND
Chromium (Cr)	0.05	5.9	2.4	1.8
Lead (Pb)	0.015	0.51	0.22	0.18
Mercury (Hg) (7470A)	0.002	ND	ND	ND
Selenium (Se)	0.008 [b]	0.023	0.012	0.013
Silver (Ag)	0.008 [b]	ND	ND	ND
Volatiles in µg/L				
1,2,4-Trichlorobenzene		ND	ND	ND
1,2,4-Trimethylbenzene		ND	ND	ND
1,2-Dichloroethane (EDC)	5	ND	ND	ND
1,3,5-Trimethylbenzene		ND	ND	ND
Benzene	5	ND	ND	ND
cis-1,3-Dichloropropene		ND	ND	ND
Ethylbenzene	700	ND	ND	ND
Isopropylbenzene		ND	ND	ND
n-Butylbenzene		ND	ND	ND
n-Propylbenzene		ND	ND	ND
Toluene	1000	ND	ND	ND
Xylenes	1000	ND	ND	ND
Semivolatiles in µg/L				
1-Methylnaphthalene		ND	ND	ND
2-Methylnaphthalene		ND	ND	ND
Bis(2-Ethylhexyl)Phthalate		2.7	ND	ND
Naphthalene	160	ND	ND	ND

U = Not detected at reporting limit indicated.
ND = Not detected.
a. 0.8 mg/L when benzene is present; 1.0 when benzene is not detected.
b. Method B Cleanup Level.

Hart Crowser



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0 1,000 2,000 4,000 Feet

2625 Montlake Place East
Seattle, Washington

Vicinity Map

19426-00 1/19

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Figure
1

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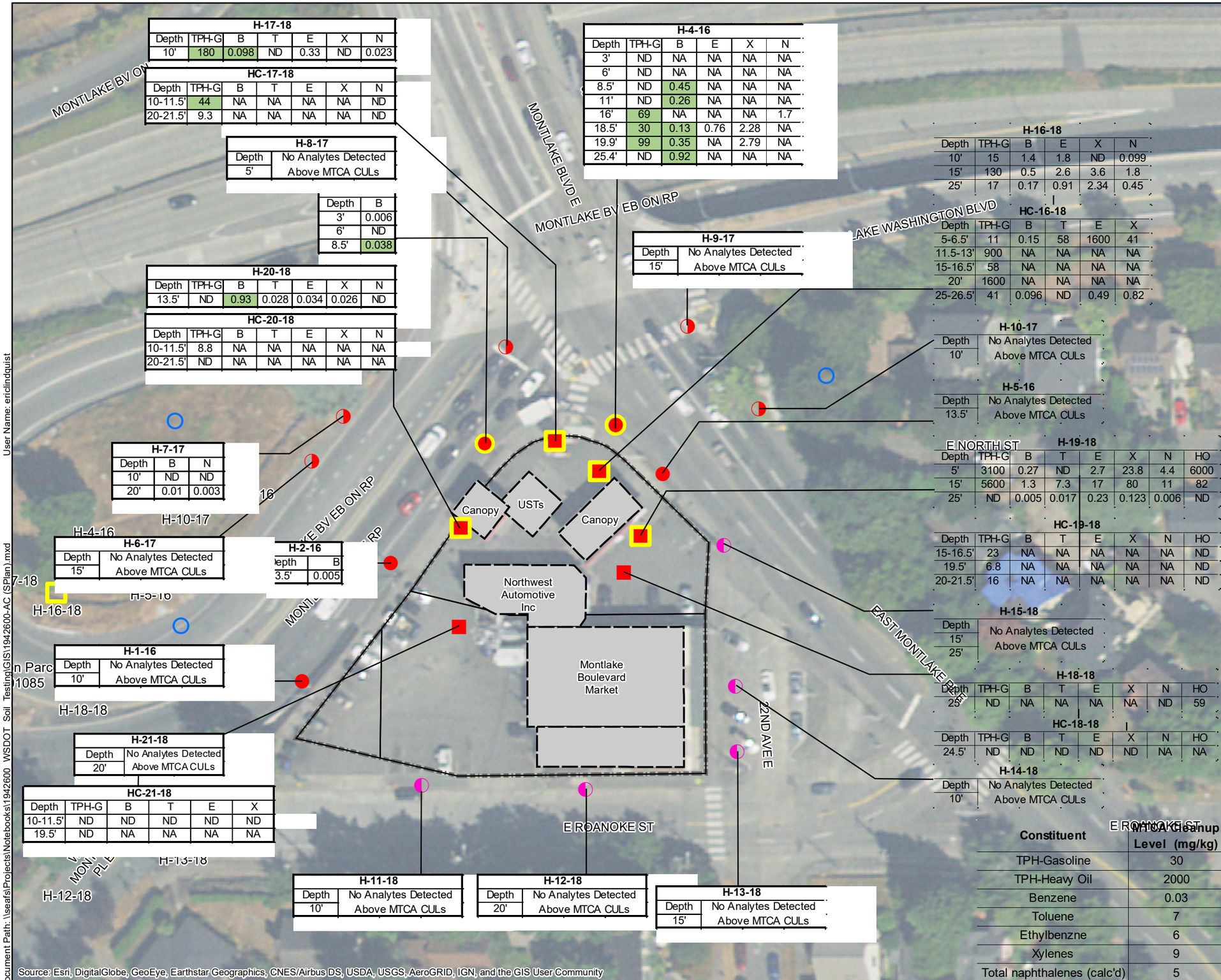

H-17-18

Depth	TPH-G	B	T	E	X	N
10'	180	0.098	ND	0.33	ND	0.023

HC-17-18

Depth	TPH-G	B	T	E	X	N
10-11.5'	44	NA	NA	NA	NA	ND
20-21.5'	9.3	NA	NA	NA	NA	ND

H-8-17

Depth	No Analytes Detected Above MTCA CULs
5'	

Depth	B
3'	0.006
6'	ND
8.5'	0.038

H-20-18

Depth	TPH-G	B	T	E	X	N
13.5'	ND	0.93	0.028	0.034	0.026	ND

HC-20-18

Depth	TPH-G	B	T	E	X	N
10-11.5'	8.8	NA	NA	NA	NA	NA
20-21.5'	ND	NA	NA	NA	NA	NA

H-7-17

Depth	B	N
10'	ND	ND
20'	0.01	0.003

H-6-17

Depth	No Analytes Detected Above MTCA CULs
15'	

H-2-16

Depth	B
3.5'	0.005

H-1-16

Depth	No Analytes Detected Above MTCA CULs
10'	

H-21-18

Depth	No Analytes Detected Above MTCA CULs
20'	

HC-21-18

Depth	TPH-G	B	T	E	X
10-11.5'	ND	ND	ND	ND	ND
19.5'	ND	NA	NA	NA	NA

H-11-18

Depth	No Analytes Detected Above MTCA CULs
10'	

H-12-18

Depth	No Analytes Detected Above MTCA CULs
20'	

H-13-18

Depth	No Analytes Detected Above MTCA CULs
15'	

H-4-16

Depth	TPH-G	B	E	X	N
3'	ND	NA	NA	NA	NA
6'	ND	NA	NA	NA	NA
8.5'	ND	0.45	NA	NA	NA
11'	ND	0.26	NA	NA	NA
16'	69	NA	NA	NA	1.7
18.5'	30	0.13	0.76	2.28	NA
19.9'	99	0.35	NA	2.79	NA
25.4'	ND	0.92	NA	NA	NA

H-9-17

Depth	No Analytes Detected Above MTCA CULs
15'	

H-16-18

Depth	TPH-G	B	E	X	N
10'	15	1.4	1.8	ND	0.099
15'	130	0.5	2.6	3.6	1.8
25'	17	0.17	0.91	2.34	0.45

HC-16-18

Depth	TPH-G	B	T	E	X
5-6.5'	11	0.15	58	1600	41
11.5-13'	900	NA	NA	NA	NA
15-16.5'	58	NA	NA	NA	NA
20'	1600	NA	NA	NA	NA
25-26.5'	41	0.096	ND	0.49	0.82

H-10-17

Depth	No Analytes Detected Above MTCA CULs
10'	

H-5-16

Depth	No Analytes Detected Above MTCA CULs
13.5'	

H-19-18

Depth	TPH-G	B	T	E	X	N	HO
5'	3100	0.27	ND	2.7	23.8	4.4	6000
15'	5600	1.3	7.3	17	80	11	82
25'	ND	0.005	0.017	0.23	0.123	0.006	ND

HC-19-18

Depth	TPH-G	B	T	E	X	N	HO
15-16.5'	23	NA	NA	NA	NA	NA	ND
19.5'	6.8	NA	NA	NA	NA	NA	ND
20-21.5'	16	NA	NA	NA	NA	NA	ND

H-15-18

Depth	No Analytes Detected Above MTCA CULs
15'	
25'	

H-18-18

Depth	TPH-G	B	T	E	X	N	HO
25'	ND	NA	NA	NA	NA	ND	59

HC-18-18

Depth	TPH-G	B	T	E	X	N	HO
24.5'	ND	ND	ND	ND	ND	NA	NA

H-14-18

Depth	No Analytes Detected Above MTCA CULs
10'	

Constituent	MTCA Cleanup Level (mg/kg)
TPH-Gasoline	30
TPH-Heavy Oil	2000
Benzene	0.03
Toluene	7
Ethylbenzne	6
Xylenes	9
Total naphthalenes (calc'd)	5

Legend

- Soil Boring Location (2016 ESA)
- Soil Boring Location (2017 ESA)
- Soil Boring Location (2018 ESA #1)
- Geotechnical Explorations
- Soil Boring Location (2018 ESA #2)
- Boring Exceeding MTCA Levels
- Structures
- Property Parcels
- Property Boundary

H-18 — Innovex Sample

Depth	B
15'	0.58

— Constituent

HC-18 — Hart Crowser Sample

Depth	TPH-G
10'	11

— Concentration in mg/kg

Shading indicates concentration exceeds MTCA Method A clean up level.

ND = Not detected at or above laboratory reporting limits
TPH-G = Gasoline-range total petroleum hydrocarbons
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
N = Total Naphthalene (sum of naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene)
HO = Heavy Oil

Note:
Location of features are approximate.

0 25 50 100 Feet

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2625 East Montlake Place East
Seattle, Washington

Soil Sample Analytical Results Exceeding MTCA Cleanup Levels

19426-00 1/19

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Figure 2

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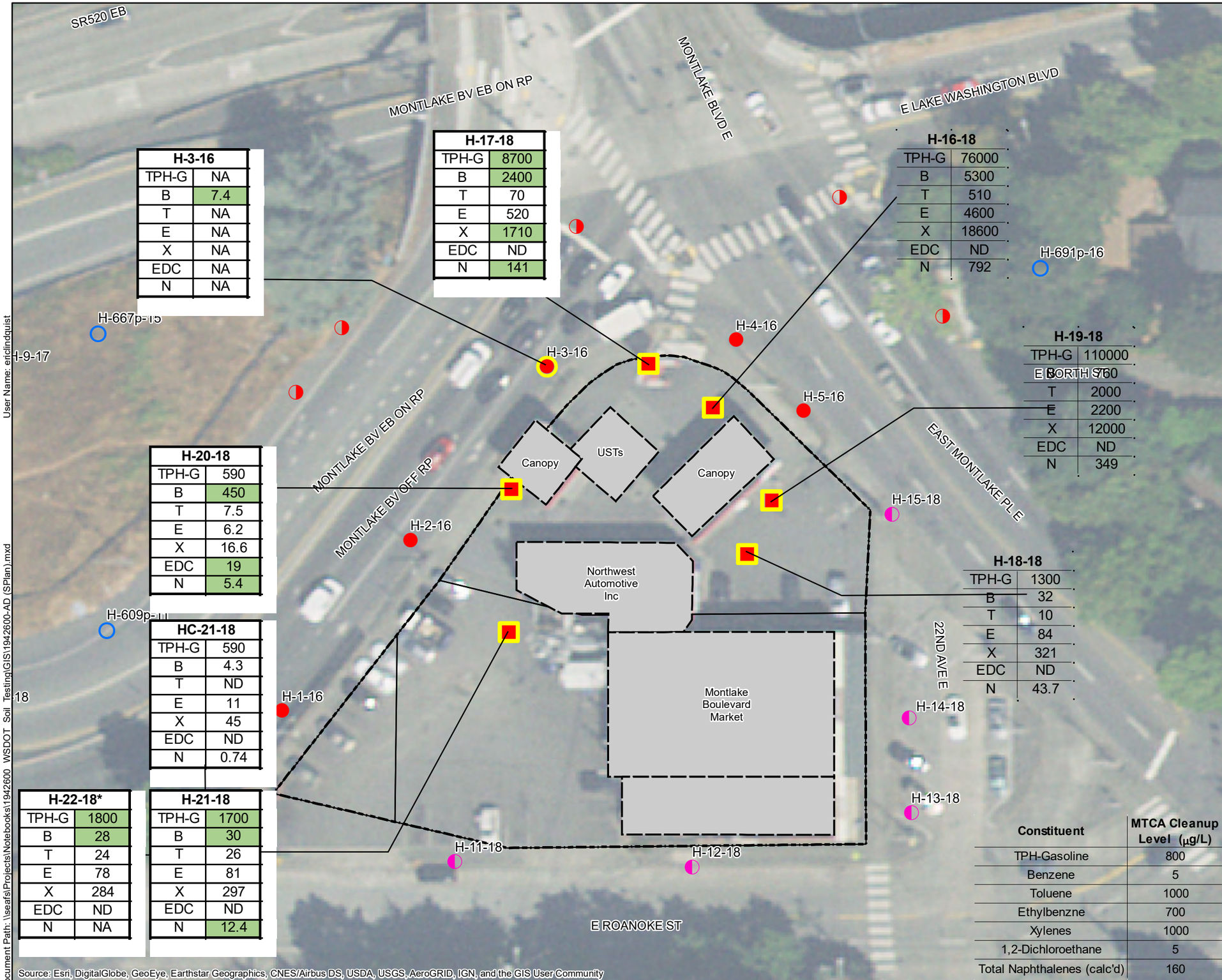

H-3-16	
TPH-G	NA
B	7.4
T	NA
E	NA
X	NA
EDC	NA
N	NA

H-17-18	
TPH-G	8700
B	2400
T	70
E	520
X	1710
EDC	ND
N	141

H-16-18	
TPH-G	76000
B	5300
T	510
E	4600
X	18600
EDC	ND
N	792

H-19-18	
TPH-G	110000
B	760
T	2000
E	2200
X	12000
EDC	ND
N	349

H-20-18	
TPH-G	590
B	450
T	7.5
E	6.2
X	16.6
EDC	19
N	5.4

HC-21-18	
TPH-G	590
B	4.3
T	ND
E	11
X	45
EDC	ND
N	0.74

H-18-18	
TPH-G	1300
B	32
T	10
E	84
X	321
EDC	ND
N	43.7

H-22-18*	
TPH-G	1800
B	28
T	24
E	78
X	284
EDC	ND
N	NA

H-21-18	
TPH-G	1700
B	30
T	26
E	81
X	297
EDC	ND
N	12.4

Constituent	MTCA Cleanup Level (µg/L)
TPH-Gasoline	800
Benzene	5
Toluene	1000
Ethylbenzne	700
Xylenes	1000
1,2-Dichloroethane	5
Total Naphthalenes (calc'd)	160

Legend

- Soil Boring Location (2016 ESA)
- Soil Boring Location (2017 ESA)
- Soil Boring Location (2018 ESA #1)
- Geotechnical Explorations
- Soil Boring Location (2018 ESA #2)
- Boring Exceeding MTCA Levels
- Structures
- Property Parcels
- Property Boundary

H-18	
Depth	B
15'	0.58

— Innovex Sample
— Constituent

HC-18	
Depth	TPH-G
10'	11

— Hart Crowser Sample
— Concentration in µg/L

Shading indicates concentration exceeds MTCA Method A clean up level.

ND = Not detected at or above laboratory reporting limits
TPH-G = Gasoline-range total petroleum hydrocarbons
B = Benzene
T = Toluene
E = Ethylbenzene
X = Total Xylenes
EDC = 1,2-Dichloroethane
N = Total Naphthalenes (sum of naphthalene, 1-Methylnaphthalene, 2-Methylnaphthalene)
Note:
Location of features are approximate.
H-22 is laboratory duplicate of H-21.

0 20 40 80 Feet

N

2625 East Montlake Place East
Seattle, Washington

Groundwater Sample Analytical Results Exceeding MTCA Cleanup Levels

19426-00 1/19

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Figure 3

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APPENDIX A
Chemical Data Quality Review and Laboratory Report: Advanced Analytical, Inc.
December 2018

APPENDIX A
CHEMICAL DATA QUALITY REVIEW AND LABORATORY REPORTS

Chemical Data Quality Review

Between December 3 and 6, 2018, 28 soil samples were collected, and on December 7, 2018, one groundwater sample was collected. The samples were submitted to Advanced Analytical Laboratory (AAL), in Redmond, Washington, for chemical analysis. The laboratory reported results as Job No. C81207-2. AAL subcontracted the water sample to AmTest Laboratories (AmTest) in Kirkland, Washington for dissolved metals analysis. AmTest reported results as 18-A021764.

Selected soil samples were analyzed for one or more of the following:

- Total petroleum hydrocarbons as diesel- and heavy-oil-range organics (TPH-D and TPD-O) by Washington State Department of Ecology (Ecology) method NWTPH-Dx;
- Total petroleum hydrocarbons as gasoline-range organics (TPH-G) by Ecology method NWTPH-Gx;
- Benzene, toluene, ethylbenzene, and total xylenes (BTEX) by EPA Method 8021B;
- Semivolatile organic compounds (SVOCs) by EPA Method 8270C;
- Volatile organic compounds (VOCs) by EPA Method 8260B; and
- Percent moisture by Standard Method (SM) 2540B.

The water sample was analyzed for the following:

- VOCs by EPA Method 8260B;
- TPH-D and TPH-O by Ecology method NWTPH-Dx;
- TPH-G by Ecology method NWTPH-Gx;
- SVOCs by EPA Method 8270;
- Total Suspended Solids (TSS) by EPA Method 160.2;
- Dissolved metals (arsenic, barium, cadmium, chromium, lead, selenium, and silver) by EPA Method 200.7; and
- Dissolved mercury by EPA Method 245.1.

The laboratories performed ongoing quality assurance/quality control (QA/QC) reviews. Hart Crowser reviewed summary reports to check that they met data quality objectives for the project.

The following criteria were evaluated during the standard data quality review process:

- Holding times;
- Reporting limits;
- Method blanks;
- Surrogate recoveries;
- Laboratory duplicate relative percent differences (RPDs);
- Laboratory Control Samples (LCS) recoveries;

- Standard Reference Material (SRM) recoveries; and
- Matrix spike/matrix spike duplicate (MS/MSD) recoveries and RPDs.

The data were determined to be acceptable for use without qualification; the complete laboratory report is presented at the end of this appendix. The data review is summarized below.

Sample Receiving Notes

C81207-2. Samples H-17-18,SS2, H-17-18,SC1, H-17-18,SC2, H-18-18,SS1, H-18-18,SC1, H-18-18,SS2, H-18-18,SC2, H-19-18,SS1, H-20-18,SC1, H-20-18,SS2, H-20-18,SC2, H-21-18,SC1, and H-21-18,SC2 were placed on hold and not analyzed. Sample H-18-18,SC3 was marked for TPH-G and TPH-G/BTEX on the chain-of-custody (COC). The sample was analyzed and reported for TPH-G/BTEX.

18-A021764. The sample was filtered at the laboratory for dissolved metals analysis.

Soil Results

TPH-D and TPH-O by NWTPH-Dx

Holding times and reporting limits were acceptable. No method blank contamination was detected. Surrogate recoveries were within laboratory control limits. The laboratory duplicate RPDs were not applicable as the sample and duplicate results were below the reporting limit.

TPH-G and BTEX by NWTPH-Gx/EPA 8021B

Holding times and reporting limits were acceptable. No method blank contamination was detected. LCS recoveries were within laboratory control limits. MS/MSD recoveries and RPDs were within laboratory control limits. The laboratory duplicate RPDs were not applicable, as the sample and duplicate results were below the reporting limit.

Surrogate recoveries were within laboratory control limits with the following exceptions:

- H-16-18,SS2 and H-16-18,SC1: The surrogates were not reported due to coelution with sample peaks. High concentrations of TPH-G were present in the samples, and sample results were not qualified.

VOCs by EPA 8260B

Holding times and reporting limits were acceptable. No method blank contamination was detected. LCS and surrogate recoveries were within laboratory control limits. MS/MSD recoveries and RPDs were within laboratory control limits.

SVOCs by EPA 8270

Holding times and reporting limits were acceptable. No method blank contamination was detected. LCS recoveries were within laboratory control limits. MS/MSD recoveries and RPDs were within laboratory control limits.

Surrogate recoveries were within laboratory control limits with the following exceptions:

- H-16-18,SS2 and H-16-18,SC1: The recoveries for the surrogate Nitrobenzene-d5 were not reported due to matrix interferences. The recoveries for the remaining surrogates were within control, and sample results were not qualified.

Percent Moisture

Holding times and reporting limits were acceptable.

Water Results

TPH-G by NWTPH-Gx

Holding times and reporting limits were acceptable. No method blank contamination was detected. Surrogate recoveries were within laboratory control limits. The laboratory duplicate RPDs were within control limits.

TPH-D and TPH-O by NWTPH-Dx

Holding times and reporting limits were acceptable. No method blank contamination was detected. Surrogate recoveries were within laboratory control limits. The laboratory duplicate RPDs were not applicable, as the sample and duplicate results were below the reporting limit.

SVOCs by EPA 8270

Holding times and reporting limits were acceptable. No method blank contamination was detected. LCS and surrogate recoveries were within laboratory control limits. MS/MSD recoveries and RPDs were within laboratory control limits.

Dissolved Metals by EPA 200.7

Holding times and reporting limits were acceptable. SRM recoveries were within control limits. MS/MSD recoveries and RPDs were within method control limits.

The method blank contained detections for dissolved silver, barium, cadmium, and chromium above the detection limits. The results for those metals in the associated sample, H-21-18,H1 were greater than ten times the amount in the method blank, and no results were qualified.

Dissolved Mercury by EPA 245.1

Holding times and reporting limits were acceptable. No method blank contamination was detected. SRM and MS recoveries were within control limits. The laboratory duplicate RPDs were within control limits.

VOCs by EPA 8260

Holding times and reporting limits were acceptable. No method blank contamination was detected. LCS and surrogate recoveries were within laboratory control limits. MS/MSD recoveries and RPDs were within laboratory control limits.

TSS by EPA 160.2

Holding times and reporting limits were acceptable.

Laboratory Report

ADVANCED ANALYTICAL

Environmental Testing Laboratory

December 26, 2018

Julie Wukelic
Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, WA 98121

Dear Ms. Wukelic:

Please find enclosed the analytical data report for the *Montlake (WSDOT) 19426-00* ***(C81207-2)*** Project.

Samples were received on *December 07, 2018*. The results of the analyses are presented in the attached tables. Applicable reporting limits, QA/QC data and data qualifiers are included. A copy of the chain-of-custody and an invoice for the work is also enclosed.

ADVANCED ANALYTICAL LABORATORY appreciates the opportunity to provide analytical services for this project. Should there be any questions regarding this report, please contact me at (425) 702-8571.

It was a pleasure working with you, and we are looking forward to the next opportunity to work together.

Sincerely,

V. Ivanov

Val G. Ivanov, Ph.D.
Laboratory Manager

4078 148 Ave NE ■ Redmond, WA 98052
425.702-8571
E-mail: aachemlab@yahoo.com

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Advanced Analytical Laboratory
(425) 702-8571

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		MTH BLK	LCS	H-16-18,SS2	H-16-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
MTBE	100	nd		nd	nd
Dichlorodifluoromethane	50	nd		nd	nd
Chloromethane	50	nd		nd	nd
Vinyl chloride	50	nd		nd	nd
Bromomethane	50	nd		nd	nd
Chloroethane	50	nd		nd	nd
Trichlorofluoromethane	50	nd		nd	nd
1,1-Dichloroethene	50	nd		nd	nd
Methylene chloride	20	nd		nd	nd
trans-1,2-Dichloroethene	50	nd		nd	nd
1,1-Dichloroethane	50	nd		nd	nd
2,2-Dichloropropane	50	nd		nd	nd
cis-1,2-Dichloroethene	50	nd		nd	nd
Chloroform	50	nd		nd	nd
1,1,1-Trichloroethane	50	nd		nd	nd
Carbontetrachloride	50	nd		nd	nd
1,1-Dichloropropene	50	nd		nd	nd
Benzene	20	nd	120%	5,000	980
1,2-Dichloroethane(EDC)	20	nd		nd	nd
Trichloroethene	20	nd	80%	nd	nd
1,2-Dichloropropane	50	nd		nd	nd
Dibromomethane	50	nd		nd	nd
Bromodichloromethane	50	nd		nd	nd
cis-1,3-Dichloropropene	50	nd		nd	nd
Toluene	50	nd	91%	480	81
trans-1,3-Dichloropropene	50	nd		nd	nd
1,1,2-Trichloroethane	50	nd		nd	nd
Tetrachloroethene	50	nd		nd	nd
1,3-Dichloropropane	50	nd		nd	nd
Dibromochloromethane	20	nd		nd	nd
1,2-Dibromoethane (EDB)*	5	nd		nd	nd
Chlorobenzene	50	nd	95%	nd	nd
1,1,1,2-Tetrachloroethane	50	nd		nd	nd
Ethylbenzene	50	nd		34,000	2,800
Xylenes	50	nd		1,800	2,000
Styrene	50	nd		nd	nd
Bromoform	50	nd		nd	nd
Isopropylbenzene	50	nd		5,100	250
1,2,3-Trichloropropane	50	nd		nd	nd
Bromobenzene	50	nd		nd	nd
1,1,2,2-Tetrachloroethane	50	nd		nd	nd
n-Propylbenzene	50	nd		20,000	1,200
2-Chlorotoluene	50	nd		nd	nd
4-Chlorotoluene	50	nd		nd	nd
1,3,5-Trimethylbenzene	50	nd		2,000	480
tert-Butylbenzene	50	nd		nd	nd

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		MTH BLK	LCS	H-16-18,SS2	H-16-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
1,2,4-Trimethylbenzene	50	nd		2,300	2,100
sec-Butylbenzene	50	nd		2,400	140
1,3-Dichlorobenzene	50	nd		nd	nd
Isopropyltoluene	50	nd		1,100	53
1,4-Dichlorobenzene	50	nd		nd	nd
1,2-Dichlorobenzene	50	nd		nd	nd
n-Butylbenzene	50	nd		6,800	440
1,2-Dibromo-3-Chloropropane	50	nd		nd	nd
1,2,4-Trichlorobenzene	50	nd		nd	nd
Hexachloro-1,3-butadiene	50	nd		nd	nd
1,2,3-Trichlorobenzene	50	nd		nd	nd

*-instrument detection limits

Surrogate recoveries				
Dibromofluoromethane	86%	95%	84%	81%
Toluene-d8	92%	78%	104%	82%
1,2-Dichloroethane-d4	104%	103%	113%	101%
4-Bromofluorobenzene	96%	101%	126%	99%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M-matrix interference
C - coelution with sample peaks
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		H-16-18,SC1	H-17-18,SS1	H-17-18,SS3	H-19-18,SS2
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
MTBE	100	nd	nd	nd	nd
Dichlorodifluoromethane	50	nd	nd	nd	nd
Chloromethane	50	nd	nd	nd	nd
Vinyl chloride	50	nd	nd	nd	nd
Bromomethane	50	nd	nd	nd	nd
Chloroethane	50	nd	nd	nd	nd
Trichlorofluoromethane	50	nd	nd	nd	nd
1,1-Dichloroethene	50	nd	nd	nd	nd
Methylene chloride	20	nd	nd	nd	nd
trans-1,2-Dichloroethene	50	nd	nd	nd	nd
1,1-Dichloroethane	50	nd	nd	nd	nd
2,2-Dichloropropane	50	nd	nd	nd	nd
cis-1,2-Dichloroethene	50	nd	nd	nd	nd
Chloroform	50	nd	nd	nd	nd
1,1,1-Trichloroethane	50	nd	nd	nd	nd
Carbontetrachloride	50	nd	nd	nd	nd
1,1-Dichloropropene	50	nd	nd	nd	nd
Benzene	20	1,200	94	330	nd
1,2-Dichloroethane(EDC)	20	nd	nd	nd	nd
Trichloroethene	20	nd	nd	nd	nd
1,2-Dichloropropane	50	nd	nd	nd	nd
Dibromomethane	50	nd	nd	nd	nd
Bromodichloromethane	50	nd	nd	nd	nd
cis-1,3-Dichloropropene	50	nd	nd	nd	nd
Toluene	50	530	nd	nd	nd
trans-1,3-Dichloropropene	50	nd	nd	nd	nd
1,1,2-Trichloroethane	50	nd	nd	nd	nd
Tetrachloroethene	50	nd	nd	nd	nd
1,3-Dichloropropane	50	nd	nd	nd	nd
Dibromochloromethane	20	nd	nd	nd	nd
1,2-Dibromoethane (EDB)*	5	nd	nd	nd	nd
Chlorobenzene	50	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	50	nd	nd	nd	nd
Ethylbenzene	50	15,000	650	170	190
Xylenes	50	51,000	2,200	360	780
Styrene	50	nd	nd	nd	nd
Bromoform	50	nd	nd	nd	nd
Isopropylbenzene	50	1,500	59	61	nd
1,2,3-Trichloropropane	50	nd	nd	nd	nd
Bromobenzene	50	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	50	nd	nd	nd	nd
n-Propylbenzene	50	7,600	300	220	130
2-Chlorotoluene	50	nd	nd	nd	nd
4-Chlorotoluene	50	nd	nd	nd	nd
1,3,5-Trimethylbenzene	50	11,000	430	130	260
tert-Butylbenzene	50	nd	nd	nd	nd

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		H-16-18,SC1	H-17-18,SS1	H-17-18,SS3	H-19-18,SS2
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
1,2,4-Trimethylbenzene	50	31,000	1,600	460	860
sec-Butylbenzene	50	790	nd	nd	nd
1,3-Dichlorobenzene	50	nd	nd	nd	nd
Isopropyltoluene	50	570	170	nd	nd
1,4-Dichlorobenzene	50	nd	nd	nd	nd
1,2-Dichlorobenzene	50	nd	nd	nd	nd
n-Butylbenzene	50	2,300	210	160	120
1,2-Dibromo-3-Chloropropane	50	nd	nd	nd	nd
1,2,4-Trichlorobenzene	50	nd	nd	nd	nd
Hexachloro-1,3-butadiene	50	nd	nd	nd	nd
1,2,3-Trichlorobenzene	50	nd	nd	nd	nd

*-instrument detection limits

Surrogate recoveries

Dibromofluoromethane	82%	81%	85%	82%
Toluene-d8	89%	86%	85%	83%
1,2-Dichloroethane-d4	103%	106%	109%	105%
4-Bromofluorobenzene	122%	97%	104%	104%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
M-matrix interference
C - coelution with sample peaks
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		H-19-18,SS3	H-19-18,SC1	H-20-18,SS1	H-20-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
MTBE	100	nd	nd	nd	nd
Dichlorodifluoromethane	50	nd	nd	nd	nd
Chloromethane	50	nd	nd	nd	nd
Vinyl chloride	50	nd	nd	nd	nd
Bromomethane	50	nd	nd	nd	nd
Chloroethane	50	nd	nd	nd	nd
Trichlorofluoromethane	50	nd	nd	nd	nd
1,1-Dichloroethene	50	nd	nd	nd	nd
Methylene chloride	20	nd	nd	nd	nd
trans-1,2-Dichloroethene	50	nd	nd	nd	nd
1,1-Dichloroethane	50	nd	nd	nd	nd
2,2-Dichloropropane	50	nd	nd	nd	nd
cis-1,2-Dichloroethene	50	nd	nd	nd	nd
Chloroform	50	nd	nd	nd	nd
1,1,1-Trichloroethane	50	nd	nd	nd	nd
Carbontetrachloride	50	nd	nd	nd	nd
1,1-Dichloropropene	50	nd	nd	nd	nd
Benzene	20	nd	nd	1,100	nd
1,2-Dichloroethane(EDC)	20	nd	nd	nd	nd
Trichloroethene	20	nd	nd	nd	nd
1,2-Dichloropropane	50	nd	nd	nd	nd
Dibromomethane	50	nd	nd	nd	nd
Bromodichloromethane	50	nd	nd	nd	nd
cis-1,3-Dichloropropene	50	nd	nd	nd	nd
Toluene	50	nd	nd	88	nd
trans-1,3-Dichloropropene	50	nd	nd	nd	nd
1,1,2-Trichloroethane	50	nd	nd	nd	nd
Tetrachloroethene	50	nd	nd	nd	nd
1,3-Dichloropropane	50	nd	nd	nd	nd
Dibromochloromethane	20	nd	nd	nd	nd
1,2-Dibromoethane (EDB)*	5	nd	nd	nd	nd
Chlorobenzene	50	nd	nd	nd	nd
1,1,1,2-Tetrachloroethane	50	nd	nd	nd	nd
Ethylbenzene	50	150	68	340	nd
Xylenes	50	650	210	150	nd
Styrene	50	nd	nd	nd	nd
Bromoform	50	nd	nd	nd	nd
Isopropylbenzene	50	64	57	59	nd
1,2,3-Trichloropropane	50	nd	nd	nd	nd
Bromobenzene	50	nd	nd	nd	nd
1,1,2,2-Tetrachloroethane	50	nd	nd	nd	nd
n-Propylbenzene	50	140	110	250	nd
2-Chlorotoluene	50	nd	nd	nd	nd
4-Chlorotoluene	50	nd	nd	nd	nd
1,3,5-Trimethylbenzene	50	210	170	140	nd
tert-Butylbenzene	50	nd	nd	nd	nd

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/kg		H-19-18,SS3	H-19-18,SC1	H-20-18,SS1	H-20-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
1,2,4-Trimethylbenzene	50	530	190	140	nd
sec-Butylbenzene	50	nd	nd	nd	nd
1,3-Dichlorobenzene	50	nd	nd	nd	nd
Isopropyltoluene	50	nd	nd	nd	nd
1,4-Dichlorobenzene	50	nd	nd	nd	nd
1,2-Dichlorobenzene	50	nd	nd	nd	nd
n-Butylbenzene	50	230	180	180	nd
1,2-Dibromo-3-Chloropropane	50	nd	nd	nd	nd
1,2,4-Trichlorobenzene	50	nd	nd	nd	nd
Hexachloro-1,3-butadiene	50	nd	nd	nd	nd
1,2,3-Trichlorobenzene	50	nd	nd	nd	nd

*-instrument detection limits

Surrogate recoveries

Dibromofluoromethane	84%	82%	83%	85%
Toluene-d8	84%	84%	87%	71%
1,2-Dichloroethane-d4	102%	106%	103%	94%
4-Bromofluorobenzene	113%	96%	97%	106%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M-matrix interference
C - coelution with sample peaks
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results			MS	MSD	RPD
8260B, µg/kg		**H-21-18,SC3**	**H-21-18,SC3**	**H-21-18,SC3**	**H-21-18,SC3**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
MTBE	100	nd			
Dichlorodifluoromethane	50	nd			
Chloromethane	50	nd			
Vinyl chloride	50	nd			
Bromomethane	50	nd			
Chloroethane	50	nd			
Trichlorofluoromethane	50	nd			
1,1-Dichloroethene	50	nd			
Methylene chloride	20	nd			
trans-1,2-Dichloroethene	50	nd			
1,1-Dichloroethane	50	nd			
2,2-Dichloropropane	50	nd			
cis-1,2-Dichloroethene	50	nd			
Chloroform	50	nd			
1,1,1-Trichloroethane	50	nd			
Carbontetrachloride	50	nd			
1,1-Dichloropropene	50	nd			
Benzene	20	nd	112%	129%	14%
1,2-Dichloroethane(EDC)	20	nd			
Trichloroethene	20	nd	76%	97%	24%
1,2-Dichloropropane	50	nd			
Dibromomethane	50	nd			
Bromodichloromethane	50	nd			
cis-1,3-Dichloropropene	50	nd			
Toluene	50	nd	83%	103%	21%
trans-1,3-Dichloropropene	50	nd			
1,1,2-Trichloroethane	50	nd			
Tetrachloroethene	50	nd			
1,3-Dichloropropane	50	nd			
Dibromochloromethane	20	nd			
1,2-Dibromoethane (EDB)*	5	nd			
Chlorobenzene	50	nd	89%	100%	12%
1,1,1,2-Tetrachloroethane	50	nd			
Ethylbenzene	50	nd			
Xylenes	50	nd			
Styrene	50	nd			
Bromoform	50	nd			
Isopropylbenzene	50	nd			
1,2,3-Trichloropropane	50	nd			
Bromobenzene	50	nd			
1,1,2,2-Tetrachloroethane	50	nd			
n-Propylbenzene	50	nd			
2-Chlorotoluene	50	nd			
4-Chlorotoluene	50	nd			
1,3,5-Trimethylbenzene	50	nd			
tert-Butylbenzene	50	nd			

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results			MS	MSD	RPD
8260B, µg/kg		**H-21-18,SC3**	**H-21-18,SC3**	**H-21-18,SC3**	**H-21-18,SC3**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
1,2,4-Trimethylbenzene	50	nd			
sec-Butylbenzene	50	nd			
1,3-Dichlorobenzene	50	nd			
Isopropyltoluene	50	nd			
1,4-Dichlorobenzene	50	nd			
1,2-Dichlorobenzene	50	nd			
n-Butylbenzene	50	nd			
1,2-Dibromo-3-Chloropropane	50	nd			
1,2,4-Trichlorobenzene	50	nd			
Hexachloro-1,3-butadiene	50	nd			
1,2,3-Trichlorobenzene	50	nd			

*-instrument detection limits

Surrogate recoveries			
Dibromofluoromethane	85%	95%	88%
Toluene-d8	70%	71%	70%
1,2-Dichloroethane-d4	99%	97%	96%
4-Bromofluorobenzene	102%	101%	99%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M-matrix interference
C - coelution with sample peaks
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

NWTPH-Dx, mg/kg		MTH BLK	H-16-18,SS1	H-16-18,SS2	H-16-18,SS3	H-16-18,SS4
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd

Surrogate recoveries:

Fluorobiphenyl	126%	124%	128%	129%	127%
o-Terphenyl	129%	125%	123%	126%	125%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

NWTPH-Dx, mg/kg		H-16-18,SC1	H-17-18,SS1	H-17-18,SS3	H-19-18,SS2	H-19-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd

Surrogate recoveries:

Fluorobiphenyl	130%	127%	127%	121%	129%
o-Terphenyl	121%	120%	127%	121%	128%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

NWTPH-Dx, mg/kg		H-19-18,SC1	H-20-18,SS1	H-20-18,SS3	H-21-18,SS1	H-21-18,SC3
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18	12/09/18	12/09/18
Kerosene/Jet fuel	20	nd	nd	nd	nd	nd
Diesel/Fuel oil	20	nd	nd	nd	nd	nd
Heavy oil	50	nd	nd	nd	nd	nd

Surrogate recoveries:

Fluorobiphenyl	127%	126%	127%	120%	129%
o-Terphenyl	127%	126%	128%	124%	127%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results		Dupl
NWTPH-Dx, mg/kg		**H-21-18,SC3**
Matrix	Soil	Soil
Date extracted	Reporting	12/09/18
Date analyzed	Limits	12/09/18
Kerosene/Jet fuel	20	nd
Diesel/Fuel oil	20	nd
Heavy oil	50	nd

Surrogate recoveries:	
Fluorobiphenyl	130%
o-Terphenyl	130%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

NWTPH-Gx / BTEX		MTH BLK	LCS	H-16-18,SS1	H-16-18,SS2	H-16-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
NWTPH-Gx, mg/kg						
Mineral spirits/Stoddard	5.0	nd		nd	nd	nd
Gasoline	5.0	nd		11	900	58
BTEX 8021B, µg/kg						
Benzene	20	nd	78%	150		
Toluene	50	nd	78%	nd		
Ethylbenzene	50	nd		nd		
Xylenes	50	nd		nd		
Surrogate recoveries:						
Trifluorotoluene		93%	88%	76%	C	94%
Bromofluorobenzene		107%	113%	116%	C	88%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

NWTPH-Gx / BTEX		H-16-18,SS4	H-16-18,SC1	H-17-18,SS1	H-17-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
NWTPH-Gx, mg/kg					
Mineral spirits/Stoddard	5.0	nd	nd	nd	nd
Gasoline	5.0	41	1,600	44	9.3
BTEX 8021B, µg/kg					
Benzene	20	96			
Toluene	50	nd			
Ethylbenzene	50	490			
Xylenes	50	820			
Surrogate recoveries:					
Trifluorotoluene		78%	C	75%	77%
Bromofluorobenzene		102%	C	114%	109%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

NWTPH-Gx / BTEX		H-18-18,SC3	H-18-18,SC3 Dupl	MTH BLK	LCS	H-19-18,SS2
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/08/18	12/08/18	12/09/18	12/09/18	12/09/18
NWTPH-Gx, mg/kg						
Mineral spirits/Stoddard	5.0	nd	nd	nd		nd
Gasoline	5.0	nd	nd	nd		23
BTEX 8021B, µg/kg						
Benzene	20	nd	nd	nd	70%	
Toluene	50	nd	nd	nd	73%	
Ethylbenzene	50	nd	nd	nd		
Xylenes	50	nd	nd	nd		
Surrogate recoveries:						
Trifluorotoluene		77%	79%	85%	85%	86%
Bromofluorobenzene		109%	118%	103%	107%	117%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

NWTPH-Gx / BTEX		H-19-18,SS3	H-19-18,SC1	H-20-18,SS1	H-20-18,SS3
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/09/18	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18	12/09/18
NWTPH-Gx, mg/kg					
Mineral spirits/Stoddard	5.0	nd	nd	nd	nd
Gasoline	5.0	16	6.8	8.8	nd
BTEX 8021B, µg/kg					
Benzene	20				
Toluene	50				
Ethylbenzene	50				
Xylenes	50				
Surrogate recoveries:					
Trifluorotoluene		87%	73%	77%	78%
Bromofluorobenzene		114%	104%	111%	118%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results				Dupl	MS
NWTPH-Gx / BTEX		**H-21-18,SS1**	**H-21-18,SC3**	**H-21-18,SC3**	**H-21-18,SC3**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/09/18	12/09/18	12/09/18	12/08/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18	12/08/18
NWTPH-Gx, mg/kg					
Mineral spirits/Stoddard	5.0	nd	nd	nd	
Gasoline	5.0	nd	nd	nd	
BTEX 8021B, µg/kg					
Benzene	20	nd			74%
Toluene	50	nd			72%
Ethylbenzene	50	nd			
Xylenes	50	nd			
Surrogate recoveries:					
Trifluorotoluene		82%	83%	70%	86%
Bromofluorobenzene		116%	123%	106%	71%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results		MSD	RPD
NWTPH-Gx / BTEX		**H-21-18,SC3**	**H-21-18,SC3**
Matrix	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18
NWTPH-Gx, mg/kg			
Mineral spirits/Stoddard	5.0		
Gasoline	5.0		
BTEX 8021B, µg/kg			
Benzene	20	72%	2%
Toluene	50	70%	2%
Ethylbenzene	50		
Xylenes	50		
Surrogate recoveries:			
Trifluorotoluene		83%	
Bromofluorobenzene		81%	

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
M - matrix interference
C - coelution with sample peaks
Results reported on dry-weight basis
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

8270C, mg/kg		MTH BLK	LCS	H-16-18,SS2	H-16-18,SC1	H-17-18,SS1
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Phenol	0.50	nd		nd	nd	nd
2-Chlorophenol	0.50	nd	97%	nd	nd	nd
1,3-Dichlorobenzene	0.10	nd		nd	nd	nd
1,4-Dichlorobenzene	0.10	nd	95%	nd	nd	nd
1,2-Dichlorobenzene	0.10	nd		nd	nd	nd
2-Methylphenol (o-cresol)	0.10	nd		nd	nd	nd
3,4-Methylphenol (m,p-cresol)	0.10	nd		nd	nd	nd
Hexachloroethane	0.10	nd		nd	nd	nd
2-Nitrophenol	0.50	nd		nd	nd	nd
2,4-Dimethylphenol	0.50	nd		nd	nd	nd
Bis (2-chloroethoxy) methane	0.10	nd		nd	nd	nd
2,4-Dichlorophenol	0.50	nd		nd	nd	nd
1,2,4-Trichlorobenzene	0.10	nd	119%	nd	nd	nd
1-MethylNaphthalene	0.10	nd		0.63	1.1	nd
2-MethylNaphthalene	0.10	nd		1.0	2.4	nd
Naphthalene	0.10	nd		0.16	4.6	nd
Hexachlorobutadiene	0.50	nd		nd	nd	nd
4-Chloro-3-methylphenol	0.50	nd	102%	nd	nd	nd
Hexachlorocyclopentadiene	0.10	nd		nd	nd	nd
2,4,6-Trichlorophenol	0.50	nd		nd	nd	nd
2,4,5-Trichlorophenol	0.50	nd		nd	nd	nd
2-Chloronaphthalene	0.10	nd		nd	nd	nd
Dimethylphthalate	0.10	nd		nd	nd	nd
Acenaphthylene	0.10	nd		nd	nd	nd
Acenaphthene	0.10	nd	103%	nd	nd	nd
2,4-Dinitrophenol	0.50	nd		nd	nd	nd
4-Nitrophenol	0.50	nd		nd	nd	nd
2,3,4,6-Tetrachlorophenol	0.10	nd		nd	nd	nd
Diethylphthalate	0.10	nd		nd	nd	nd
4-Chlorophenylphenylether	0.50	nd		nd	nd	nd
Fluorene	0.10	nd		nd	nd	nd
N-Nitrosodiphenylamine	0.10	nd		nd	nd	nd
2,4,6-Tribromophenol	0.50	nd		nd	nd	nd
4-Bromophenylphenylether	0.10	nd		nd	nd	nd
Hexachlorobenzene	0.10	nd		nd	nd	nd
Pentachlorophenol	0.50	nd		nd	nd	nd
Phenanthrene	0.10	nd		nd	nd	nd
Anthracene	0.10	nd		nd	nd	nd
Di-n-butylphthalate	0.10	nd		nd	nd	nd
Fluoranthene	0.10	nd		nd	nd	nd
Pyrene	0.10	nd	108%	nd	nd	nd
Butylbenzylphthalate	0.50	nd		nd	nd	nd
Benzo(a)anthracene	0.10	nd		nd	nd	nd
Chrysene	0.10	nd		nd	nd	nd
Bis (2-ethylhexyl) ether	0.10	nd		nd	nd	nd
Di-n-octylphthalate	0.50	nd		nd	nd	nd
Benzo(b)fluoranthene	0.10	nd		nd	nd	nd

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

8270C, mg/kg		MTH BLK	LCS	H-16-18,SS2	H-16-18,SC1	H-17-18,SS1
Matrix	Soil	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Benzo(k)fluoranthene	0.10	nd		nd	nd	nd
Benzo(a)pyrene	0.10	nd		nd	nd	nd
Indeno(1,2,3-cd)pyrene	0.10	nd		nd	nd	nd
Dibenzo(a,h)anthracene	0.10	nd		nd	nd	nd
Benzo(ghi)perylene	0.10	nd		nd	nd	nd
Surrogate recoveries						
Phenol-d6		82%	68%	84%	52%	94%
Nitrobenzene-d5		83%	74%	M	M	89%
2-Fluorobiphenyl		119%	138%	135%	122%	137%
2,4,6-Tribromophenol		96%	105%	97%	97%	107%
4-Terphenyl-d14		110%	112%	119%	117%	119%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M - matrix interference
Results reported on dry-weight basis
Acceptable Recovery limits: 50% TO 150%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results			MS	MSD	RPD
8270C, mg/kg		**H-17-18,SS3**	**H-17-18,SS3**	**H-17-18,SS3**	**H-17-18,SS3**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
Phenol	0.50	nd			
2-Chlorophenol	0.50	nd	98%	99%	1%
1,3-Dichlorobenzene	0.10	nd			
1,4-Dichlorobenzene	0.10	nd	99%	96%	3%
1,2-Dichlorobenzene	0.10	nd			
2-Methylphenol (o-cresol)	0.10	nd			
3,4-Methylphenol (m,p-cresol)	0.10	nd			
Hexachloroethane	0.10	nd			
2-Nitrophenol	0.50	nd			
2,4-Dimethylphenol	0.50	nd			
Bis (2-chloroethoxy) methane	0.10	nd			
2,4-Dichlorophenol	0.50	nd			
1,2,4-Trichlorobenzene	0.10	nd	112%	110%	2%
1-MethylNaphthalene	0.10	nd			
2-MethylNaphthalene	0.10	nd			
Naphthalene	0.10	nd			
Hexachlorobutadiene	0.50	nd			
4-Chloro-3-methylphenol	0.50	nd	102%	98%	3%
Hexachlorocyclopentadiene	0.10	nd			
2,4,6-Trichlorophenol	0.50	nd			
2,4,5-Trichlorophenol	0.50	nd			
2-Chloronaphthalene	0.10	nd			
Dimethylphthalate	0.10	nd			
Acenaphthylene	0.10	nd			
Acenaphthene	0.10	nd	102%	103%	1%
2,4-Dinitrophenol	0.50	nd			
4-Nitrophenol	0.50	nd			
2,3,4,6-Tetrachlorophenol	0.10	nd			
Diethylphthalate	0.10	nd			
4-Chlorophenylphenylether	0.50	nd			
Fluorene	0.10	nd			
N-Nitrosodiphenylamine	0.10	nd			
2,4,6-Tribromophenol	0.50	nd			
4-Bromophenylphenylether	0.10	nd			
Hexachlorobenzene	0.10	nd			
Pentachlorophenol	0.50	nd			
Phenanthrene	0.10	nd			
Anthracene	0.10	nd			
Di-n-butylphthalate	0.10	nd			
Fluoranthene	0.10	nd			
Pyrene	0.10	nd	106%	101%	4%
Butylbenzylphthalate	0.50	nd			
Benzo(a)anthracene	0.10	nd			
Chrysene	0.10	nd			
Bis (2-ethylhexyl) ether	0.10	nd			
Di-n-octylphthalate	0.50	nd			
Benzo(b)fluoranthene	0.10	nd			

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results			MS	MSD	RPD
8270C, mg/kg		**H-17-18,SS3**	**H-17-18,SS3**	**H-17-18,SS3**	**H-17-18,SS3**
Matrix	Soil	Soil	Soil	Soil	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18
Benzo(k)fluoranthene	0.10	nd			
Benzo(a)pyrene	0.10	nd			
Indeno(1,2,3-cd)pyrene	0.10	nd			
Dibenzo(a,h)anthracene	0.10	nd			
Benzo(ghi)perylene	0.10	nd			
Surrogate recoveries					
Phenol-d6		81%	72%	64%	
Nitrobenzene-d5		79%	84%	72%	
2-Fluorobiphenyl		124%	150%	140%	
2,4,6-Tribromophenol		93%	102%	105%	
4-Terphenyl-d14		107%	111%	116%	

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M - matrix interference
Results reported on dry-weight basis
Acceptable Recovery limits: 50% TO 150%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

Moisture, SM2540B	**H-16-18,SS1**	**H-16-18,SS2**	**H-16-18,SS3**	**H-16-18,SS4**
Matrix	Soil	Soil	Soil	Soil
Date analyzed	12/10/18	12/10/18	12/10/18	12/10/18
Moisture, %	16%	16%	13%	17%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

Moisture, SM2540B	H-16-18,SC1	H-17-18,SS1	H-17-18,SS3	H-17-18,SC3
Matrix	Soil	Soil	Soil	Soil
Date analyzed	12/10/18	12/10/18	12/10/18	12/10/18
Moisture, %	18%	15%	14%	16%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

Moisture, SM2540B	**H-19-18,SS2**	**H-19-18,SS3**	**H-19-18,SC1**	**H-20-18,SS1**
Matrix	Soil	Soil	Soil	Soil
Date analyzed	12/10/18	12/10/18	12/10/18	12/10/18
Moisture, %	13%	14%	12%	15%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

Moisture, SM2540B	**H-20-18,SS3**	**H-21-18,SS1**	**H-21-18,SC3**
Matrix	Soil	Soil	Soil
Date analyzed	12/10/18	12/10/18	12/10/18
Moisture, %	12%	15%	12%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/L		MTH BLK	LCS	H-21-18, H1
Matrix	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/08/18	12/08/18	12/08/18
MTBE	5.0	nd		nd
Chloromethane	1.0	nd		nd
Vinyl chloride(*)	0.2	nd		nd
Bromomethane	1.0	nd		nd
Chloroethane	1.0	nd		nd
Trichlorofluoromethane	1.0	nd		nd
1,1-Dichloroethene	1.0	nd		nd
Methylene chloride	1.0	nd		nd
trans-1,2-Dichloroethene	1.0	nd		nd
1,1-Dichloroethane	1.0	nd		nd
2,2-Dichloropropane	1.0	nd		nd
cis-1,2-Dichloroethene	1.0	nd		nd
Chloroform	1.0	nd		nd
1,1,1-Trichloroethane	1.0	nd		nd
Carbontetrachloride	1.0	nd		nd
1,1-Dichloropropene	1.0	nd		nd
Benzene	1.0	nd	120%	4.3
1,2-Dichloroethane(EDC)	1.0	nd		nd
Trichloroethene	1.0	nd	80%	nd
1,2-Dichloropropane	1.0	nd		nd
Dibromomethane	1.0	nd		nd
Bromodichloromethane	1.0	nd		nd
cis-1,3-Dichloropropene	1.0	nd		7.3
Toluene	1.0	nd	91%	nd
trans-1,3-Dichloropropene	1.0	nd		nd
1,1,2-Trichloroethane	1.0	nd		nd
Tetrachloroethene	1.0	nd		nd
1,3-Dichloropropane	1.0	nd		nd
Dibromochloromethane	1.0	nd		nd
1,2-Dibromoethane (EDB)*	0.01	nd		nd
Chlorobenzene	1.0	nd	95%	nd
1,1,1,2-Tetrachloroethane	1.0	nd		nd
Ethylbenzene	1.0	nd		11
Xylenes	1.0	nd		45
Styrene	1.0	nd		nd
Bromoform	1.0	nd		nd
Isopropylbenzene	1.0	nd		1.1
1,2,3-Trichloropropane	1.0	nd		nd
Bromobenzene	1.0	nd		nd
1,1,2,2-Tetrachloroethane	1.0	nd		nd
n-Propylbenzene	1.0	nd		2.2
2-Chlorotoluene	1.0	nd		nd
4-Chlorotoluene	1.0	nd		nd
1,3,5-Trimethylbenzene	1.0	nd		4.6
tert-Butylbenzene	1.0	nd		nd
1,2,4-Trimethylbenzene	1.0	nd		17
sec-Butylbenzene	1.0	nd		nd

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

8260B, µg/L		MTH BLK	LCS	H-21-18, H1
Matrix	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/08/18	12/08/18	12/08/18
1,3-Dichlorobenzene	1.0	nd		nd
Isopropyltoluene	1.0	nd		nd
1,4-Dichlorobenzene	1.0	nd		nd
1,2-Dichlorobenzene	1.0	nd		nd
n-Butylbenzene	1.0	nd		nd
1,2-Dibromo-3-Chloropropane	1.0	nd		nd
1,2,4-Trichlorobenzene	1.0	nd		6.9
Hexachloro-1,3-butadiene	1.0	nd		nd
1,2,3-Trichlorobenzene	1.0	nd		nd

*-instrument detection limits

Surrogate recoveries

Dibromofluoromethane	86%	95%	95%
Toluene-d8	92%	78%	96%
1,2-Dichloroethane-d4	104%	103%	108%
4-Bromofluorobenzene	96%	101%	103%

Data Qualifiers and Analytical Comments

nd - not detected at listed reporting limits
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results		MS	MSD	RPD
8260B, µg/L		**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**
Matrix	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/08/18	12/08/18	12/08/18
MTBE	5.0			
Chloromethane	1.0			
Vinyl chloride(*)	0.2			
Bromomethane	1.0			
Chloroethane	1.0			
Trichlorofluoromethane	1.0			
1,1-Dichloroethene	1.0			
Methylene chloride	1.0			
trans-1,2-Dichloroethene	1.0			
1,1-Dichloroethane	1.0			
2,2-Dichloropropane	1.0			
cis-1,2-Dichloroethene	1.0			
Chloroform	1.0			
1,1,1-Trichloroethane	1.0			
Carbontetrachloride	1.0			
1,1-Dichloropropene	1.0			
Benzene	1.0	96%	124%	25%
1,2-Dichloroethane(EDC)	1.0			
Trichloroethene	1.0	73%	83%	13%
1,2-Dichloropropane	1.0			
Dibromomethane	1.0			
Bromodichloromethane	1.0			
cis-1,3-Dichloropropene	1.0			
Toluene	1.0	79%	101%	25%
trans-1,3-Dichloropropene	1.0			
1,1,2-Trichloroethane	1.0			
Tetrachloroethene	1.0			
1,3-Dichloropropane	1.0			
Dibromochloromethane	1.0			
1,2-Dibromoethane (EDB)*	0.01			
Chlorobenzene	1.0	81%	100%	20%
1,1,1,2-Tetrachloroethane	1.0			
Ethylbenzene	1.0			
Xylenes	1.0			
Styrene	1.0			
Bromoform	1.0			
Isopropylbenzene	1.0			
1,2,3-Trichloropropane	1.0			
Bromobenzene	1.0			
1,1,2,2-Tetrachloroethane	1.0			
n-Propylbenzene	1.0			
2-Chlorotoluene	1.0			
4-Chlorotoluene	1.0			
1,3,5-Trimethylbenzene	1.0			
tert-Butylbenzene	1.0			
1,2,4-Trimethylbenzene	1.0			
sec-Butylbenzene	1.0			

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results		MS	MSD	RPD
8260B, µg/L		**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**
Matrix	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/08/18	12/08/18	12/08/18
1,3-Dichlorobenzene	1.0			
Isopropyltoluene	1.0			
1,4-Dichlorobenzene	1.0			
1,2-Dichlorobenzene	1.0			
n-Butylbenzene	1.0			
1,2-Dibromo-3-Chloropropane	1.0			
1,2,4-Trichlorobenzene	1.0			
Hexachloro-1,3-butadiene	1.0			
1,2,3-Trichlorobenzene	1.0			

*-instrument detection limits

Surrogate recoveries			
Dibromofluoromethane		84%	84%
Toluene-d8		88%	81%
1,2-Dichloroethane-d4		101%	103%
4-Bromofluorobenzene		99%	97%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

				Dupl	RPD
NWTPH-Gx		**MTH BLK**	**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**
Matrix	Water	Water	Water	Water	Water
Date analyzed	Reporting Limits	12/08/18	12/08/18	12/08/18	12/08/18
NWTPH-Gx, mg/L					
Mineral spirits/Stoddard	0.10	nd	nd	nd	
Gasoline	0.10	nd	0.59	0.69	16%

Surrogate recoveries:

Trifluorotoluene	93%	92%	88%
Bromofluorobenzene	107%	106%	126%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

NWTPH-Dx, mg/L		MTH BLK	H-21-18, H1	Dupl H-21-18, H1
Matrix	Water	Water	Water	Water
Date extracted	Reporting	12/09/18	12/09/18	12/09/18
Date analyzed	Limits	12/09/18	12/09/18	12/09/18
Kerosene/Jet fuel	0.20	nd	nd	nd
Diesel/Fuel oil	0.20	nd	nd	nd
Heavy oil	0.50	nd	nd	nd
Surrogate recoveries:				
Fluorobiphenyl		121%	124%	125%
o-Terphenyl		130%	120%	125%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
na - not analyzed
Acceptable Recovery limits: 70% TO 130%
Acceptable RPD limit: 30%

AAL Job Number: C81207-2
Client: Hart Crowser, Inc.
Project Manager: Julie Wukelic
Client Project Name: Montlake (WSDOT)
Client Project Number: 19426-00
Date received: 12/07/18

Analytical Results

					MS	MSD	RPD
8270, µg/L		**MTH BLK**	**LCS**	**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**
Matrix	Water	Water	Water	Water	Water	Water	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Phenol	1.0	nd		nd			
2-Chlorophenol	1.0	nd	101%	nd	98%	100%	3%
1,3-Dichlorobenzene	1.0	nd		nd			
1,4-Dichlorobenzene	1.0	nd	98%	nd	98%	97%	1%
1,2-Dichlorobenzene	1.0	nd		nd			
2-Methylphenol (o-cresol)	1.0	nd		nd			
3,4-Methylphenol (m,p-cresol)	1.0	nd		nd			
Hexachloroethane	1.0	nd		nd			
2-Nitrophenol	5.0	nd		nd			
2,4-Dimethylphenol	5.0	nd		nd			
Bis (2-chloroethoxy) methane	1.0	nd		nd			
2,4-Dichlorophenol	5.0	nd		nd			
1,2,4-Trichlorobenzene	1.0	nd	113%	nd	109%	116%	6%
1-MethylNaphthalene	0.1	nd		0.12			
2-MethylNaphthalene	0.1	nd		0.10			
Naphthalene	0.1	nd		0.52			
2,6-Dichlorophenol	5.0	nd		nd			
Hexachloropropylene	5.0	nd		nd			
Hexachlorobutadiene	5.0	nd		nd			
4-Chloro-3-methylphenol	5.0	nd	99%	nd	103%	101%	2%
Hexachlorocyclopentadiene	1.0	nd		nd			
2,4,6-Trichlorophenol	5.0	nd		nd			
2,4,5-Trichlorophenol	5.0	nd		nd			
2-Chloronaphthalene	1.0	nd		nd			
Dimethylphthalate	1.0	nd		nd			
Acenaphthylene	0.1	nd		nd			
Acenaphthene	0.1	nd	102%	nd	101%	103%	1%
2,4-Dinitrophenol	5.0	nd		nd			
4-Nitrophenol	5.0	nd		nd			
2,3,4,6-Tetrachlorophenol	1.0	nd		nd			
Fluorene	0.1	nd		nd			
Diethylphthalate	5.0	nd		nd			
N-Nitrosodiphenylamine	1.0	nd		nd			
2,4,6-Tribromophenol	5.0	nd		nd			
4-Bromophenylphenylether	1.0	nd		nd			
Hexachlorobenzene	1.0	nd		nd			
Pentachlorophenol	5.0	nd		nd			
Phenanthrene	0.1	nd		nd			
Anthracene	0.1	nd		nd			
Di-n-butylphthalate	1.0	nd		nd			
Fluoranthene	0.1	nd		nd			
Pyrene	0.1	nd	102%	nd	108%	103%	4%
Benzo(a)anthracene	0.1	nd		nd			
Chrysene	0.1	nd		nd			
Bis (2-ethylhexyl) ether	1.0	nd		nd			
Di-n-octylphthalate	5.0	nd		nd			
Benzo(b)fluoranthene	0.1	nd		nd			

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

Analytical Results

					MS	MSD	RPD
8270, µg/L		**MTH BLK**	**LCS**	**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**	**H-21-18, H1**
Matrix	Water	Water	Water	Water	Water	Water	Soil
Date extracted	Reporting	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Date analyzed	Limits	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18	12/08/18
Benzo(k)fluoranthene	0.1	nd		nd			
Benzo(a)pyrene	0.1	nd		nd			
Dibenzo(a,h)anthracene	0.1	nd		nd			
Benzo(ghi)perylene	0.1	nd		nd			
Indeno(1,2,3-cd)pyrene	0.1	nd		nd			

Surrogate recoveries

Phenol-d6	87%	83%	94%	61%	71%
Nitrobenzene-d5	80%	96%	97%	68%	80%
2-Fluorobiphenyl	118%	136%	136%	143%	136%
2,4,6-Tribromophenol	94%	106%	107%	103%	105%
4-Terphenyl-d14	109%	114%	116%	112%	112%

Data Qualifiers and Analytical Comments
nd - not detected at listed reporting limits
M - matrix interference
Acceptable Recovery limits: 50% TO 150%
Acceptable RPD limit: 50%

AAL Job Number:	C81207-2
Client:	Hart Crowser, Inc.
Project Manager:	Julie Wukelic
Client Project Name:	Montlake (WSDOT)
Client Project Number:	19426-00
Date received:	12/07/18

TSS (160.2)		**H-21-18, H1**
Matrix	Water	Water
Date analyzed	Reporting Limits	12/10/18
Total Suspended Solids, mg/L	10	19,000

Sample Custody Record

Samples Shipped to: _____

HARTCROWSER

C81207-2

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • **Fax** 206.328.5581

JOB 19426-00 LAB NUMBER _____

PROJECT NAME Montlake (Husky) Sol Sampling

HART CROWSER CONTACT Julie Wuhelic

SAMPLED BY: Caire McCabe

REQUESTED ANALYSIS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TPH-Gx	TPH-Dx 8015	TPH-Dx	VOCs	Total Metals 8	SVOCs								NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	H-16-18,SS1		12/3/18	23:25	Soil		X	X											2	
	H-16-18,SS2		12/3/18	23:41		X		X	X		X								2	
	H-16-18,SS3		12/3/18	23:53		X		X	X		X	NO							2	
	H-16-18,SS4		12/4/18	00:35			X	X											2	
	H-16-18,SC1		12/4/18	00:45		X		X	X		X								2	
	H-17-18,SS1		12/4/18	2:27		X		X	X		X								2	
	H-17-18,SS2		12/4/18	2:37															2	
	H-17-18,SS3		12/4/18	2:55		X		X	X		X								2	
	H-17-18,SC1		12/4/18	3:20															2	
	H-17-18,SC2		12/4/18	3:25															2	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	12/7/18	SIGNATURE V. Ivanov	12/07/18
PRINT NAME Julie Wuhelic	TIME 2.22 PM	PRINT NAME VAL IVANOV	TIME 16:20
COMPANY HART CROWSER		COMPANY AAL	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

RUSH — RESULTS ON MONDAY 12/10/18

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS: ☐YES ☐NO ☐N/A
GOOD CONDITION ☐YES ☐NO
TEMPERATURE _____
SHIPMENT METHOD: ☐HAND ☐COURIER ☐OVERNIGHT

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐48 HOURS ☐STANDARD
☐72 HOURS OTHER _____

White to Lab Yellow to Project Manager Pink to Sample Custodian

Sample Custody Record

Samples Shipped to: _____

HARTCROWSER

C81207-2 2/5

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • **Fax** 206.328.5581

JOB 1942600 LAB NUMBER _____

PROJECT NAME Northlake (WSDOT) Soil Sampling

HART CROWSER CONTACT JULIE WUKELIC

SAMPLED BY: COIRE McCABE

REQUESTED ANALYSIS: TPH-GX; TPH-GX/BTEX; TPH-DX; OCs; Total Metals (2004 8); SVOCs

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TPH-GX	TPH-GX/BTEX	TPH-DX	OCs	Total Metals (2004 8)	SVOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	H-18-18,SS1		12/5/18	00:30	SOIL							2	
	H-18-18,SC1		↓	00:50	↓							2	
	H-18-18,SS2			1:06								2	
	H-18-18,SC2			1:20								2	
	H-18-18,SC3		↓	1:45	↓	X	X					2	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
Wukelic	12/7/18	V. Franco	12/07/18
SIGNATURE	TIME	SIGNATURE	TIME
Julie Wukelic		VALFANCO	
PRINT NAME		PRINT NAME	
HART CROWSER	3:22pm	BAL	16:29
COMPANY		COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

RUSH —

RESULTS ON MONDAY 12/10/18

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION

CUSTODY SEALS: ☐YES ☐NO ☐N/A

GOOD CONDITION ☐YES ☐NO

TEMPERATURE _____

SHIPMENT METHOD: ☐HAND ☐COURIER ☐OVERNIGHT

TURNAROUND TIME:

☐ 24 HOURS ☐ 1 WEEK

☐48 HOURS ☐STANDARD

☐72 HOURS OTHER _____

White to Lab Yellow to Project Manager Pink to Sample Custodian

Sample Custody Record

Samples Shipped to: _____

C81207-2 3/5

HARTCROWSER

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • **Fax** 206.328.5581

JOB 1942600 LAB NUMBER _____

PROJECT NAME Montlake (WSDOT) Soil Sampling

HART CROWSER CONTACT Julie Wukelic

SAMPLED BY: Coire McCabe

REQUESTED ANALYSIS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TPH-Gx	TPH-Gx, BTEX	TPH-Dx	VOCs	RCRA 8 TOTAL METALS	SVOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	H-19-18, SS1		12/5/18	23:52	Soil							2	
	H-19-18, SS2		12/6/18	00:05		X		X	X			2	
	H-19-18, SS3		12/6/18	00:18		X		X	X			2	
	H-19-18, SC1		12/6/18	00:45		X		X	X			2	
	H-20-18, SC1		12/6/18	2:18								2	
	H-20-18, SS1		12/6/18	2:25		X		X	X			2	
	H-20-18, SS2		12/6/18	2:32								2	
	H-20-18, SS3		12/6/18	2:45		X		X	X			2	
	H-20-18, SC2		12/6/18	3:13								2	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE Julie Wukelic	12/7/18	SIGNATURE V. Walton	12/07/18
PRINT NAME Hart Crowser	TIME 2:23 PM	PRINT NAME VAL	TIME 16:20
COMPANY		COMPANY	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

RUSH - RESULTS ON MONDAY 12/10/18

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____ for Other Contract Requirements

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS: ☐YES ☐NO ☐N/A
GOOD CONDITION ☐YES ☐NO
TEMPERATURE _____
SHIPMENT METHOD: ☐HAND ☐COURIER ☐OVERNIGHT

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐48 HOURS ☐STANDARD
☐72 HOURS OTHER _____

White to Lab Yellow to Project Manager Pink to Sample Custodian

Sample Custody Record

Samples Shipped to: _____

C81207-2 4/5

HARTCROWSER

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • **Fax** 206.328.5581

JOB [redacted] LAB NUMBER _____

PROJECT NAME [illegible] Soil Samples

HART CROWSER CONTACT Julie Wukelic

SAMPLED BY: Corie McCabe

REQUESTED ANALYSIS: TPH-Gx, TPH-Dx, TPH-Dx, OCs, RCRA Total Metals 8, SVOCs

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TPH-Gx	TPH-Dx	TPH-Dx	OCs	RCRA Total Metals 8	SVOCs	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	11-21-18, SS1		12/6/18	10:36	Soil							2	
	11-21-18, SS1		↓	10:42	↓		X	X				2	
	11-21-18, SS2			10:54								2	
	11-21-18, SS3			11:21		X	X	X	X	X	NO	2	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE [illegible]	12/7/18	SIGNATURE V. Pranov	12/07/18
PRINT NAME Julie Wukelic	TIME	PRINT NAME VAL TRANOV	TIME
COMPANY Hart Crowser	2:23 pm	COMPANY AHL	16:20

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS:
☐YES ☐NO ☐N/A
GOOD CONDITION
☐YES ☐NO
TEMPERATURE _____
SHIPMENT METHOD: ☐HAND
☐COURIER ☐OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____
for Other Contract Requirements

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐48 HOURS ☐STANDARD
☐72 HOURS OTHER _____

White to Lab Yellow to Project Manager Pink to Sample Custodian

Sample Custody Record

Samples Shipped to: _____

C81207-2

HARTCROWSER

Hart Crowser, Inc.
3131 Elliott Avenue, Suite 600
Seattle, Washington 98121
Office: 206.324.9530 • **Fax** 206.328.5581

JOB 1942600 LAB NUMBER _____

PROJECT NAME Montlake (WSDOT) Soil Sampling

HART CROWSER CONTACT Julie Wukelic

SAMPLED BY: Coire McCabe

REQUESTED ANALYSIS

LAB NO.	SAMPLE ID	DESCRIPTION	DATE	TIME	MATRIX	TPH 6X	TPH 0X	VOCs	SVOCs	Dissolved metals	TSS	NO. OF CONTAINERS	OBSERVATIONS/COMMENTS/ COMPOSITING INSTRUCTIONS
	H-21-18, H1		12/7/18	00:40	H_2O	X	X	X	X	X	X		

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE Julie Wukelic	12/7/18	SIGNATURE V Ivanov	12/07/18
PRINT NAME Hart Crowser	TIME 2:27p	PRINT NAME PAL HAND	TIME 16:29
COMPANY		COMPANY PAL	

RELINQUISHED BY	DATE	RECEIVED BY	DATE
SIGNATURE	TIME	SIGNATURE	TIME
PRINT NAME		PRINT NAME	
COMPANY		COMPANY	

SPECIAL SHIPMENT HANDLING OR STORAGE REQUIREMENTS:

TOTAL NUMBER OF CONTAINERS

SAMPLE RECEIPT INFORMATION
CUSTODY SEALS:
☐YES ☐NO ☐N/A
GOOD CONDITION
☐YES ☐NO
TEMPERATURE _____
SHIPMENT METHOD: ☐HAND
☐COURIER ☐OVERNIGHT

COOLER NO.: STORAGE LOCATION:

See Lab Work Order No. _____
for Other Contract Requirements

TURNAROUND TIME:
☐ 24 HOURS ☐ 1 WEEK
☐48 HOURS ☐STANDARD
☐72 HOURS OTHER _____

White to Lab Yellow to Project Manager Pink to Sample Custodian

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664

Professional Analytical Services

Dec 19 2018
Advanced Analytical
2821 152nd Ave NE
Redmond, WA 98052
Attention: Val Ivanov

Dear Val Ivanov:

Enclosed please find the analytical data for your MONTLAKE (DOT) project.

The following is a cross correlation of client and laboratory identifications for your convenience.

CLIENT ID	MATRIX	AMTEST ID	TEST
H-21-18, H1	Water	18-A021764	MET

Your sample was received on Monday, December 10, 2018. At the time of receipt, the sample was logged in and properly maintained prior to the subsequent analysis.

The analytical procedures used at AmTest are well documented and are typically derived from the protocols of the EPA, USDA, FDA or the Army Corps of Engineers.

Following the analytical data you will find the Quality Control (QC) results.

Please note that the detection limits that are listed in the body of the report refer to the Practical Quantitation Limits (PQL's), as opposed to the Method Detection Limits (MDL's).

If you should have any questions pertaining to the data package, please feel free to contact me.

Sincerely,

Aaron W. Young
Laboratory Manager

Project #: C81207-2

BACT = Bacteriological
CONV = Conventionals
MET = Metals
ORG = Organics
NUT=Nutrients
DEM=Demand
MIN=Minerals

Am Test Inc.
13600 NE 126TH PL
Suite C
Kirkland, WA 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

ANALYSIS REPORT

Advanced Analytical
2821 152nd Ave NE
Redmond, WA 98052
Attention: Val Ivanov
Project Name: MONTLAKE (DOT)
Project #: C81207-2
All results reported on an as received basis.

Date Received: 12/10/18
Date Reported: 12/19/18

AMTEST Identification Number **18-A021764**
Client Identification **H-21-18, H1**
Sampling Date **12/07/18**

Dissolved Metals

PARAMETER	RESULT	UNITS	Q	D.L.	METHOD	ANALYST	DATE
Dissolved Silver	0.842	mg/L		0.005	EPA 200.7	KQ	12/11/18
Dissolved Arsenic	1.05	mg/l		0.005	EPA 200.7	KQ	12/11/18
Dissolved Barium	1.04	mg/l		0.0005	EPA 200.7	KQ	12/11/18
Dissolved Cadmium	0.969	mg/l		0.0005	EPA 200.7	KQ	12/11/18
Dissolved Chromium	0.9941	mg/l		0.005	EPA 200.7	KQ	12/11/18
Dissolved Mercury	0.00006	mg/l		0.00002	EPA 245.1	JH	12/17/18
Dissolved Lead	0.92	mg/l		0.01	EPA 200.7	KQ	12/11/18
Dissolved Selenium	1.06	mg/l		0.005	EPA 200.7	KQ	12/11/18

Aaron W. Young
Laboratory Manager

Am Test Inc.
13600 NE 126th PL
Suite C
Kirkland, WA, 98034
(425) 885-1664
www.amtestlab.com

Professional Analytical Services

QC Summary for sample number: 18-A021764

DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	DUP VALUE	RPD
18-A021764	Dissolved Mercury	mg/l	0.00006	0.00006	0.00

MATRIX SPIKES

SAMPLE #	ANALYTE	UNITS	SAMPLE VALUE	SMPL+ SPK	SPK AMT	RECOVERY
18-A021471	Dissolved Barium	mg/l	0.0212	2.10	2.00	103.94 %
18-A021471	Dissolved Barium	mg/l	0.0212	2.13	2.00	105.44 %
18-A021602	Dissolved Barium	mg/l	0.0142	2.14	2.00	106.29 %
18-A021471	Dissolved Chromium	mg/l	< 0.005	2.038	2.000	101.90 %
18-A021471	Dissolved Chromium	mg/l	< 0.005	2.070	2.000	103.50 %
18-A021602	Dissolved Chromium	mg/l	0.0060	2.025	2.000	100.95 %
18-A021764	Dissolved Mercury	mg/l	0.00006	0.00109	0.00100	103.00 %

MATRIX SPIKE DUPLICATES

SAMPLE #	ANALYTE	UNITS	SAMPLE + SPK	MSD VALUE	RPD
Spike	Dissolved Barium	mg/l	2.10	2.13	1.4
Spike	Dissolved Chromium	mg/l	2.038	2.070	1.6

STANDARD REFERENCE MATERIALS

ANALYTE	UNITS	TRUE VALUE	MEASURED VALUE	RECOVERY
Dissolved Silver	mg/L	0.200	0.214	107. %
Dissolved Silver	mg/L	0.200	0.210	105. %
Dissolved Silver	mg/L	0.200	0.177	88.5 %
Dissolved Arsenic	mg/l	2.00	2.05	102. %
Dissolved Arsenic	mg/l	2.00	2.06	103. %
Dissolved Arsenic	mg/l	2.00	2.07	104. %
Dissolved Barium	mg/l	0.800	0.826	103. %
Dissolved Barium	mg/l	0.800	0.811	101. %
Dissolved Barium	mg/l	0.800	0.825	103. %
Dissolved Cadmium	mg/l	0.800	0.806	101. %
Dissolved Cadmium	mg/l	0.800	0.804	100. %
Dissolved Cadmium	mg/l	0.800	0.803	100. %
Dissolved Chromium	mg/l	0.8000	0.8137	102. %
Dissolved Chromium	mg/l	0.8000	0.8001	100. %
Dissolved Chromium	mg/l	0.8000	0.7932	99.2 %
Dissolved Mercury	mg/l	0.00250	0.00256	102. %
Dissolved Lead	mg/l	0.80	0.82	102. %
Dissolved Lead	mg/l	0.80	0.81	101. %
Dissolved Lead	mg/l	0.80	0.81	101. %
Dissolved Selenium	mg/l	2.00	2.05	102. %
Dissolved Selenium	mg/l	2.00	2.06	103. %
Dissolved Selenium	mg/l	2.00	2.07	104. %

QC Summary for sample number: 18-A021764...

BLANKS

ANALYTE	UNITS	RESULT
Dissolved Silver	mg/L	0.009
Dissolved Silver	mg/L	0.012
Dissolved Silver	mg/L	< 0.005
Dissolved Arsenic	mg/l	< 0.005
Dissolved Arsenic	mg/l	< 0.005
Dissolved Arsenic	mg/l	< 0.005
Dissolved Barium	mg/l	< 0.0005
Dissolved Barium	mg/l	0.0012
Dissolved Barium	mg/l	0.0023
Dissolved Cadmium	mg/l	< 0.0005
Dissolved Cadmium	mg/l	< 0.0005
Dissolved Cadmium	mg/l	0.0005
Dissolved Chromium	mg/l	< 0.005
Dissolved Chromium	mg/l	0.0069
Dissolved Chromium	mg/l	0.0062
Dissolved Mercury	mg/l	< 0.00005
Dissolved Lead	mg/l	< 0.01
Dissolved Lead	mg/l	< 0.01
Dissolved Lead	mg/l	< 0.01
Dissolved Selenium	mg/l	< 0.005
Dissolved Selenium	mg/l	< 0.005
Dissolved Selenium	mg/l	< 0.005

ADVANCED ANALYTICAL

Chain of Custody Record

Page of

P.5

Laboratory Job #:

4078 148 Avenue NE
Redmond, WA 98052
(425) 702-8571
aachemlab@yahoo.com

Client: Advanced Analytical Lab

Project Manager: VAL IVANOV

Address:

Phone: 425-702-8571 Fax:

Project Name: Montlake (DOT)

Project Number: C812072

Collector:

Date of collection: 12/07/18

	Sample ID (21764)	Time	Matrix	Container type	8260 Volatiles	HVOC 8260	BTEX	BTEX/NWTPH-Gx	NWTPH-Gx	NWTPH-Dx	NWTPH-HCID	8270 Semivolatiles	8270 PAH	8082 PCBs	8081 Pesticides	RCRA 8 Metals *	Lead	MTCA5 Metals		Notes, comments	# of containers
1	H-21-18, H1		W	500 ml												X				*Dissolved.	1
2				poly																Please filter!	
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

Relinquished by:	Date/Time	Received by:	Date/Time
V. Ivanov 12/10/18	900 AM		12/10/18 @ 9:55
Relinquished by:	Date/Time	Received by:	Date/Time

CLIENT

Sample receipt info:

Total # of containers:

Condition (temp, °C) 4.4

Seals (intact?, Y/N)

Comments:

Turnaround time:

Same day O

24 hr X

48 hr O

Standard O

ASAP

APPENDIX B
References

APPENDIX B
REFERENCES

Innovex Environmental Management, Inc., December 8, 2016, Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. Prepared for Washington State Department of Transportation.

Innovex Environmental Management, Inc., February 21, 2018, Supplemental Limited Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. Prepared for Washington State Department of Transportation.

Innovex Environmental Management, Inc., June 15, 2018, Second Supplemental Limited Phase II Environmental Site Assessment, State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington. Prepared for Washington State Department of Transportation.

Innovex Environmental Management, Inc., January 16, 2019, Third Supplemental Limited Phase II Environmental Site Assessment, 2625 East Montlake Place East, Seattle, Washington. Prepared for Washington State Department of Transportation.

Appendix I: 2019 Indoor Air Testing (35 Sheets)

Washington State
Department of Transportation

SR 520 Bridge Replacement and HOV Program
999 3rd Avenue, Ste. 2200, MS: NB82-99
Seattle, WA 98104
206-770-3500 / Fax: 206-770-3569
TTY: 1-800-833-6388
www.wsdot.wa.gov

January 29, 2020

Mr. Ron Paananen
HDR
SR 520 Project Office
999 Third Avenue, Suite 2200
Seattle, WA 98104

RE: 2209 East Lake Washington Boulevard – Indoor Air Testing

Dear Mr. Paananen:

Shannon & Wilson performed indoor air testing at the 2209 East Lake Washington Boulevard property in Seattle, Washington (property) on behalf of the Washington State Department of Transportation (WSDOT).

The purpose of the testing was to evaluate indoor and ambient outdoor air at the WSDOT-owned property by collecting and analyzing two air samples. The air samples were analyzed for the presence of potentially hazardous chemicals, including gasoline-range petroleum hydrocarbons (gasoline) and associated benzene, toluene, ethylbenzene, and xylene (collectively known as BTEX). The property consists of two buildings, a residence and a garage. The garage is proposed to be used as a project office during the Montlake Phase of construction activities.

Soil and groundwater contamination, including gasoline and BTEX, have been identified at the Montlake Gas Station approximately 125 feet southwest of the nearest property building (the garage). Exhibit 1 shows the approximate location of soil and groundwater contamination with respect to the property. Since gasoline and BTEX readily partition from soil and groundwater into the vapor or gaseous phase, this creates the potential for migration of gasoline and BTEX as vapor through the subsurface. Chemicals vapors can potentially migrate from nearby soil and groundwater contamination into the indoor air of nearby or overlaying buildings. For this reason, we tested the indoor air of the property's garage.

Conclusions from the indoor air testing at the property's garage are:

- The indoor air sample contained concentrations of benzene and toluene above the ambient air concentrations, indicating a potential source within the building

(e.g., observed staining on the garage floors) or that vapor migration and intrusion is occurring.

- Gasoline, benzene, and toluene are likely present in ambient air because of nearby vehicular traffic and this is also likely the primary source of these chemicals within the garage.
- It is inconclusive whether nearby soil and groundwater contamination is contributing potentially hazardous chemicals to the indoor air of the garage.
- Mitigation measures could include sealing the subsurface wall, slab, and utility inlets into the garage.

BACKGROUND

Phase I and Phase II environmental site assessments (ESAs) have been completed at the Montlake Gas Station, a site located southwest of the property and on the opposite side of Montlake Boulevard East (Exhibit 1). Subsurface explorations at the Montlake Gas Station site have found elevated concentrations of gasoline and BTEX in soil and groundwater. The approximate delineation of contaminated soil and groundwater at the Montlake Gas Station is based on laboratory analysis of soil and groundwater samples collected from subsurface explorations. Please note that the delineation of the contaminants at the Montlake Gas Station (Exhibit 1) may change based on additional subsurface explorations and testing. The property garage corner lies approximately 125 feet from the estimated edge of the contaminated soil and groundwater.

FIELD ACTIVITIES

Field activities for the indoor air testing were conducted in general accordance with the Washington State Department of Ecology's (Ecology) Vapor Intrusion Guidance (Ecology, 2018). The indoor air sampling was completed in accordance with Section 3.2.1 Tier II indoor air sampling of the guidance. The Tier II indoor air sampling is typically conducted (1) if gasoline and BTEX are present in nearby soil and groundwater contamination and (2) if buildings are present within 100 feet of the gasoline and BTEX contamination. Since the property buildings are greater than 100 feet from the nearby approximated contamination (Exhibit 1), the buildings would not typically be considered locations of potential vapor intrusion issues. However, to be conservative, WSDOT elected to conduct air sampling to further ensure that vapor intrusion was not a hazard within the property buildings as heterogeneity in the subsurface (such as utility lines) can cause some uncertainty regarding the extent of

vapor migration. In addition, the western portion of the garage is approximately 4 to 5 feet below ground surface. This exposes the western portion of the garage to subsurface soils that may potentially contain hazardous vapors.

In advance of sampling, we conducted a property reconnaissance on February 8, 2019. During the reconnaissance, WSDOT identified:

- Property buildings
- The planned use for each building
- Relevant features that may impact air sampling results, such as septic lines; natural gas heater; heating, ventilation, and air conditioning system, etc.

Shannon & Wilson personnel further evaluated the property buildings and outdoor conditions to assess areas with increased potential for vapor intrusion occurrence such as cracks in subsurface building walls and foundations. Attachment A contains field observation notes made during the property reconnaissance. Following the property reconnaissance, potential gasoline and BTEX emitters were removed from the property buildings to prevent their emissions from adding to the indoor air measurement. This included the removal of numerous paint cans, adhesives, paint thinners, and other miscellaneous items. After discussion about the future use of the property buildings, we determined that the indoor air sample would be collected from the garage. The garage is closer to the Montlake Gas Station and is planned for more extensive use than the residential building during the next few years.

The garage was ventilated on February 13, 2019, one day prior to the sampling date. The garage doors were opened and a fan was placed such that indoor air was blown outdoors. The fan was also moved around indoors to vent corners and other hard-to-access areas, such as rafters and ceiling spaces, within the garage. Ventilation occurred for approximately one hour.

On February 14, 2019, indoor and ambient air samples were collected from the property using certified-clean SUMMA canisters equipped with pressure gauges and 8-hour flow regulators. The 8-hour flow regulators were utilized to collect a sample of gasoline and BTEX concentrations over an 8-hour period, which corresponds to the length of a standard working day. The indoor SUMMA canister was deployed in the southwest corner of the garage (Exhibit 1). It was elevated approximately 54 inches above the garage floor. The outdoor SUMMA canister was placed on the northwest corner of the garage roof (Exhibit 1). It was placed underneath a table for rain

protection and on top of a plastic base to keep it above the snow, at approximately 72 inches above the surrounding ground surface. Photographs of SUMMA canisters and sampling locations for the indoor and ambient air samples are included in Attachment A.

The 8-hour indoor and ambient air sampling began at 8:50 a.m. on February 14, 2019. The initial vacuum reading from the indoor air gauge was 26 inches of mercury (inches Hg). The initial vacuum reading from the outdoor air gauge was 30 inches Hg. The gauges and weather conditions were checked every two hours during the 8-hour sample collection period. The field notes and weather conditions, including hourly plots of temperature, barometric pressure, precipitation, and humidity, for the length of the air sampling event are included in Attachment A. Throughout the day, the pressure gauges indicated that the SUMMA canister vacuum pressures dropped linearly at approximately -3 inches Hg per hour as they were drawing air samples. At 4:30 p.m., final gauge readings were recorded prior to closing SUMMA sampling canister valves at 4:50 p.m. The final vacuum reading from the indoor air gauge was 4 inches Hg. The final vacuum reading from the ambient air gauge was 8 inches Hg.

The SUMMA canisters were transported and delivered to Fremont Analytical of Seattle, Washington. Samples were delivered at 5:15 p.m. and logged in to be analyzed for gasoline and BTEX using the U.S. Environmental Protection Agency (USEPA) TO-15 Method.

RESULTS

The indoor and ambient air samples were analyzed for potentially hazardous chemicals, including gasoline and BTEX. BTEX was selected for laboratory analysis as these chemicals are commonly associated with gasoline contamination and/or are present in nearby soil and groundwater contamination. The laboratory analytical report is included as Attachment B. The results of indoor and ambient air samples have also been summarized and tabulated in Exhibit 2. As Ecology recommends (Ecology, 2018), the indoor air sampling results have been corrected in Exhibit 2, where applicable, by subtracting the ambient air result. This correction is applied to indoor air data so that natural background concentrations from the ambient condition are not evaluated as part of the indoor air measurement. Ambient air is affected near busy roadways where incomplete combustion from vehicular traffic may lead to detections of gasoline and/or BTEX in air samples. During air sample collection, the prevailing wind directions were from the northwest and north-northwest (Exhibit 1). This would place the adjacent four-way traffic intersection upwind of the ambient sampling location.

Since WSDOT intends to convert the garage into a working office space, the air sampling results have been compared to permissible exposure limits (PELs) and recommended exposure limits (RELs) provided by Occupational Safety and Health Administration and National Institute for Occupational Safety and Health, respectively. The results have also been compared to the more stringent Ecology Model Toxic Control Act (MTCA) Method B Indoor Air clean up level (CUL) (Table 1).

Measured concentrations of gasoline and BTEX from indoor and ambient air did not exceed the applicable PELs or RELs. Both the indoor and ambient air sample concentrations of benzene exceeded the MTCA Method B Indoor Air CUL. However, after correcting the indoor air benzene sample result, indoor benzene detections are mostly attributable to background ambient air concentrations, and thus, significant benzene is not anticipated to be sourced within the garage.

LIMITATIONS

This letter report was prepared for the exclusive use of WSDOT and their representatives for indoor air evaluations conducted at the 2209 East Lake Washington Boulevard property. The results, conclusions, and recommendations contained in this letter are based on site conditions as they existed at the time of our sampling, and further assume that the sampling is representative of the current property conditions. Within the limitations of the scope, schedule, and budget, the results, conclusions, and recommendations presented in this letter were prepared in accordance with generally accepted professional environmental principles and practice in this area at the time this letter report was prepared. We make no other warranty, either expressed or implied. Our conclusions and recommendations are based on our understanding of the project as described in this letter report and the site conditions as interpreted from the sampling and testing.

Shannon & Wilson has prepared the enclosed Attachment C, “Important Information About Your Geotechnical/Environmental Report,” to assist you and others in understanding the use and limitations of our reports.

We appreciate this opportunity to provide environmental services to you for this project. If you have questions regarding this letter, please contact the undersigned at (206) 632-8020.

Sincerely,

SHANNON & WILSON

Joseph Sawdey, LG
Senior Geologist

Meg Strong, LHG
Vice President

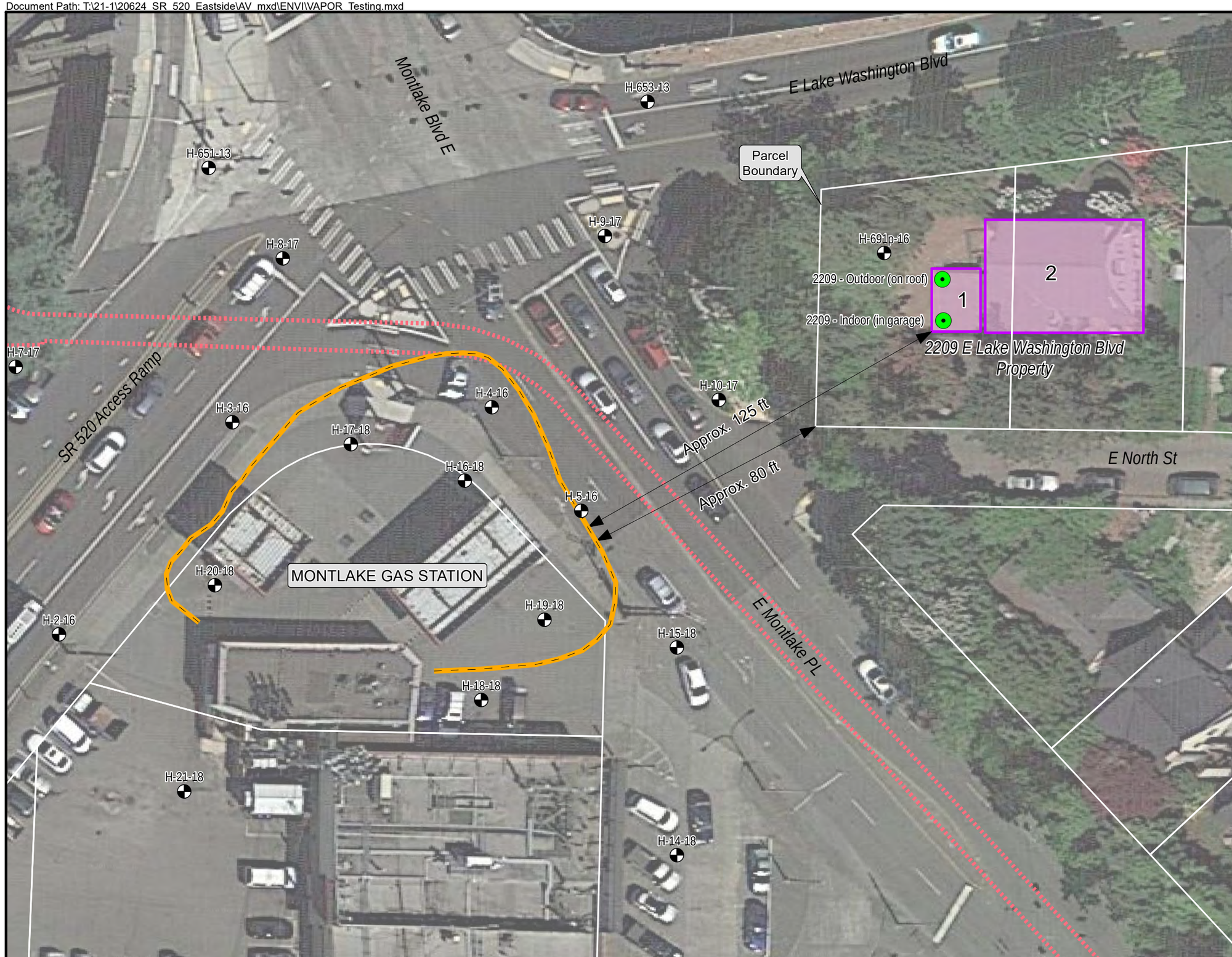
JXS:MJS/jxs

Enclosures Exhibit 1 – 2209 Vapor Testing
Exhibit 2 – Summary of Air Monitoring Results
Attachment A – Field Documentation and Weather Conditions (12 pages)
Attachment B – Laboratory Report #1902161 (10 pages)
Attachment C – Important Information About Your Geotechnical/Environmental Report

Reference:

Washington State Department of Ecology (Ecology), 2018, Guidance for evaluating soil vapor intrusion in Washington State: investigation and remedial action (draft, rev. ed II.): Olympia, Wash., Washington State Department of Ecology, Publication no. 09-09-047, April 2018.

Document Path: T:\21-1\20624_SR_520_Eastside\AV_mxd\ENVI\VAPOR_Testing.mxd



LEGEND

COMPLETED EXPLORATIONS

Existing Utility - Sewer Line (Approximate Footprint)

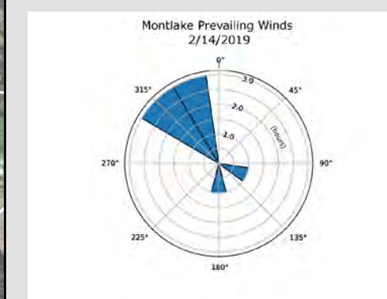
Contaminated Soil and Groundater (Approximate)

2209 VAPOR TESTING

1 Property Garage

2 Property Residence

Air Sampling Locations



Source: University District Weather Station (KWASEATT109)

N
W E
S

0 30

Feet

SR 520 Montlake to Lake Washington
I/C and Bridge Replacement
Seattle, Washington

2209 VAPOR TESTING

March 2019 21-1-22242-078

SHANNON & WILSON, INC.
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

EXHIBIT 1

EXHIBIT 2
SUMMARY OF AIR MONITORING RESULTS

Sample ID	Sample Location	Gasoline Range Organics (µg/m3)	Corrected Gasoline Range Organics (µg/m^3)*	Benzene (µg/m^3)	Corrected Benzene (µg/m^3)*	Toluene (µg/m3)	Corrected Toluene (µg/m^3)*	Ethylbenzene (µg/m^3)	Total Xylenes (µg/m^3)
2209-Outdoor	Background outside air	**71.3**	0	**0.954**	**0**	**1.91**	**0**	<1.74	<5.21
2209-Indoor	Indoor air (garage)	**62.1**	**-9.2**	**1.09**	**0.136**	**2.10**	**0.19**	<1.74	<5.21
MTCA Method B Indoor Air CUL (µg/m^3)**		NA	NA	0.32	0.32	2,290	2,290	457	45.7
NIOSH REL - TWA exposure limit (µg/m^3)		NA	NA	319	319	375,000	375,000	435,000	435,000
OSHA PEL - TWA exposure limit (µg/m^3)		900,000	900,000	3,193	3,193	750,000	750,000	435,000	435,000

Notes:
* Outdoor air benzene concentrations were subtracted from indoor concentrations in accordance with Washington State Department of Ecology's Guidance Evaluating Soil Vapor Intrusion in Washington State Revised April 2018.
** Lowest criteria between cancer and noncancer indoor air cleanup levels presented
Bold text indicates an analyte that was detected above the laboratory reporting limit.
Conversions to/from ppm to/from µg/m3 assume 25 deg C temperature and 1 atmosphere pressure
ID = identification
MTCA = Model Toxics Control Act
NIOSH = National Institute for Occupational Safety and Health
OSHA = Occupational Safety and Health Administration
REL = recommended exposure limit
PEL = permissible exposure limit
TWA = time weighted average
µg/m^3 = micrograms per cubic meter
< = analyte was not detected above the laboratory reporting limit.
NA = not applicable
CUL = cleanup level
Exceedance detected in sample

Attachment A

Field Documentation and Weather Conditions (12 pages)

Job No.: 21-1-22242-078 Site: SR520, Montlake Gas Station

Location: Seattle, WA Staff: Joseph Sawdey

Date: 2/8/2019

Indoor Air Table - Garage

Item	Observation	Other Notes Additional notes in field book
HVAC	Operating? Can it be shut down? Note General Locations	NA - multiple vent/infil pipes on E. side
General Airflow	Noticeable drafts, where? When doors open, general airflow direction? Ventilation plan prior to sampling?	Both garage and office doors open, still pretty dead air - If sampled here - bring fan to blow
Basement floor	Any cracks, gaps, holes, etc.? Pipes or other conveyance penetrating floor?	Cracks, stains, holes in garage. Same so in office area
Removable VOC containing sources	Household cleaners, solvents, paints, adhesives, etc.? Note locations on map	Various, both office and garage
Furnace	Operating? Can it be shut down? What is fuel source and where is it stored?	N.A
Septic tank	Where and if possible identify and septic lines	N. A.
Odors	Identifiable? Intensity?	Slight odor (solvent?) in garage

Job No.: 21-1-22242-078 Site: SR520, Montlake Gas Station

Location: Seattle, WA Staff: Joseph Sawdey

Date: 2/8/2019

Indoor Air Table - Rec Basement

Item	Observation	Other Notes Additional notes in field book
HVAC	Operating? No Can it be shut down? is shutdown Note General Locations	Steam from heater and mover are around circulating through the house
General Airflow	Noticeable drafts, where? When doors open, general airflow direction? Ventilation plan prior to sampling?	Very little to no airflow even w/ doors open Remove paint cans in entering wrong room
Basement floor	Any cracks, gaps, holes, etc.? Pipes or other conveyance penetrating floor?	Entire basement carpeted or tiled, numerous wall cracks
Removable VOC containing sources	Household cleaners, solvents, paints, adhesives, etc.? Note locations on map	Paints
Furnace	Operating? Can it be shut down? What is fuel source and where is it stored?	N Y, is gas
Septic tank	Where and if possible identify and septic lines	Septic line runs from sw side building down into ground exit out to tank?
Odors	Identifiable? Intensity?	None None

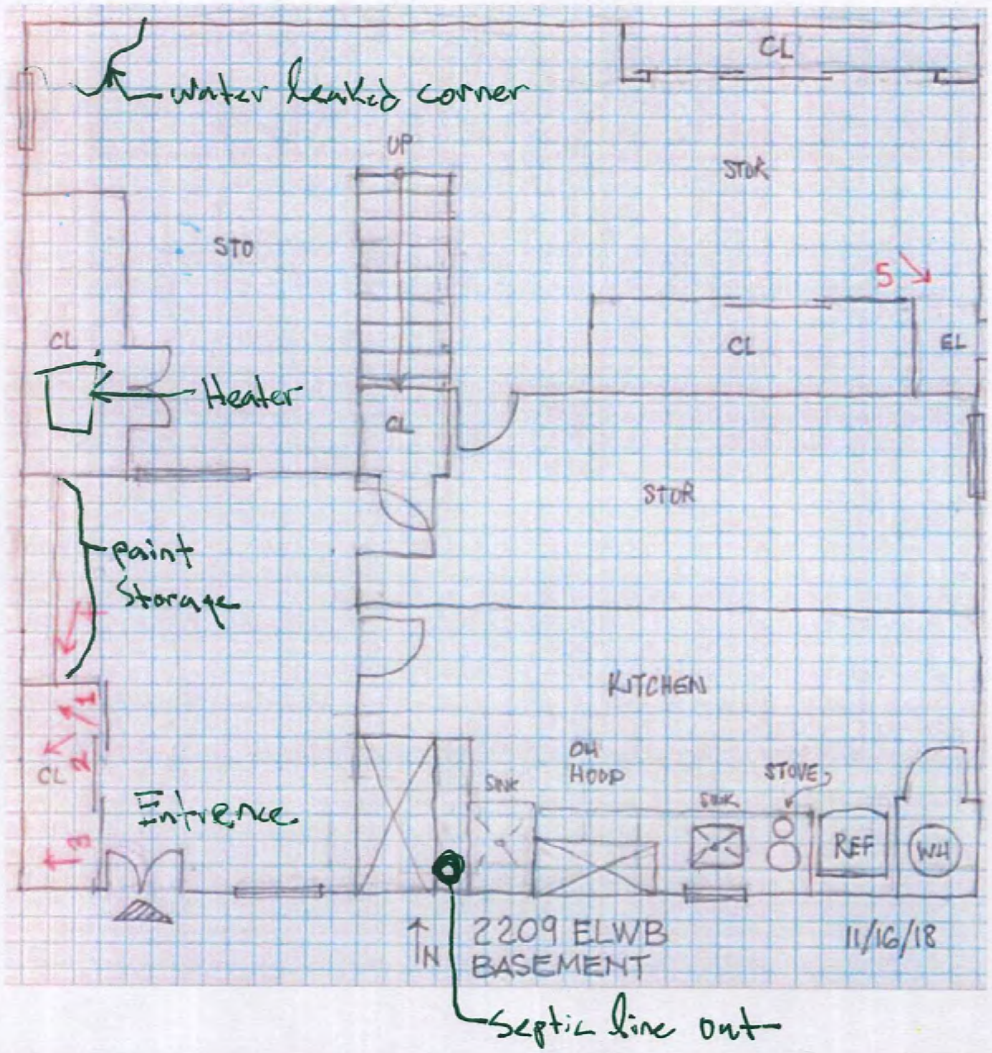
Outdoor (Ambient Air) Table

Item	Observation	Other Notes Additional notes in field book
Wind direction	Predominant direction? E -> W Nature (multiple directions?)	 weak transient gusts
Secure areas	Where? What makes them secure? Visibility? Trees, airflow obstruction notes	Property is fenced off. v. little public access low from public throughout
Elevated areas (2-3 meters ags)	Where? Approximate height ags?	multiple walls, fence roof access points ~1.5-2m
Odors	Identifiable? Source? Intensity?	Transient food odor (exhaust from houses larger trucks) low intensity
Deployment notes	Additional equipment to aide in elevated canister deployment? Health and Safety concerns?	Chain and lock? Use roof of basement and chain/lock to fence line

RecordID	Baseline	11/16/2018	Floor	Basement	AddressCity	Seattle
118	Second		AddressBuilding	2209	AddressState	WA
	Third		AddressStreet	E Lake Wash. Blvd.	AddressZip	98112

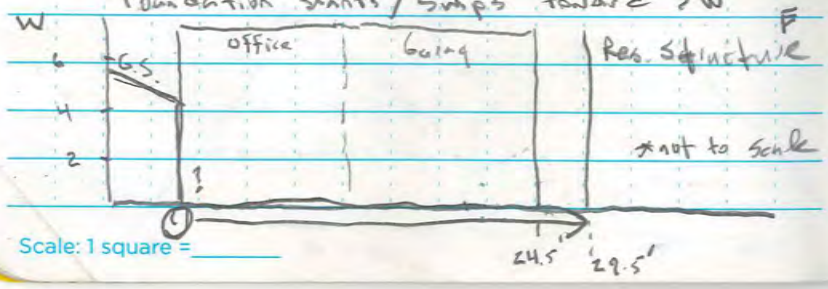
Room Key

K=Kitchen	L=Library	
BR=Bedroom	CL=Closet	D=Den
BA=Bathroom	G=Garage	DK=Deck
DR=Dining Room	HA=Hallway	O=Office
LR=Living Room	UT=Utility	S=Storage
FR=Family Room	LAUND=Laundry	



0920 Jxs meets Steve Stand onsite

Structure #1 - Garage
- planned office space
- high planned use - open to public
- not connected to the main building
  - no heat
  - no HVAC
  - Electrical = yes
- Low air flow even with garage door and side door open
- W. Side is ~ 4-5' bgs
- E Side is at ground surface
- V. faint odor (solvent-like?) in garage
- Stains on garage floor
- Divided in two by wall
- Garage on the E / office on W
- Numerous paints, finishes, stain removers, enamels + cracks, holes
- Foundation slants / slumps toward SW



Structure #2 Res Building
- planned for limited office space - Steve notes much less than garage building
- Heat and HVAC
  - HVAC off
  - Heater powered by nat. gas
- Water heater in Kitchen area
- One entry from outside
- low air flow
- SW side is ground surface
- NE side is 3-4 bgs
- No odors
- No chem storage - paint found in entry
- Water leak in NW corner
  - Steve think faucet (outdoor) leaking not current water leak
- Cracks not visible on floor as most basement is carpeted
- Septic line comes down through Kitchen area
- No odors

1030 Talk with Steve. He plans to remove all chemicals from buildings

1050 Offsite

Rite in the Rain

0920 Jxs meets Steve Stand onsite

Structure #1 - Garage
- planned office space
- high planned use - open to public
- not connected to the main building
  - no heat
  - no HVAC
  - Electrical = yes
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- Stains on garage floor
- Divided in two by wall
- Garage on the E / office on W
- Numerous paints, finishes, stain removers, enamels + cracks, holes
- Foundation slants / sinks toward SW

Scale: 1 square = _____

Structure #2 Res Building
- planned for limited office space - Steve visits much less than garage building
- Heat and HVAC
  - HVAC off
  - Heater powered by nat. gas
- Water heater in Kitchen area
- One entry from outside
- low air flow
- SW side is ground surface
- NE side is 3-4' bgs
- No odors
- No chem storage - paint found in entry
- Water leak in NW corner
  - Steve think faucet (outdoor) leaks and caused water leak
- Cracks not visible on floor as most basement is carpeted
- Septic line comes down through Kitchen area
- No odors

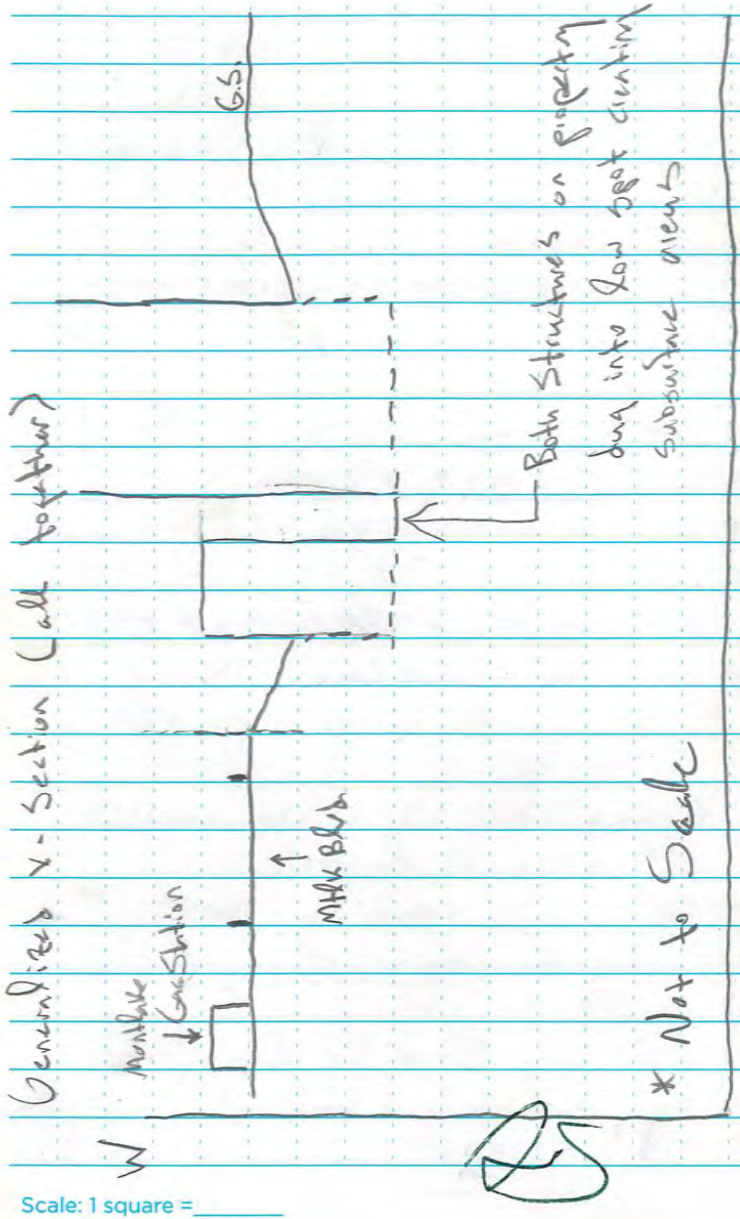
1030 Talk with Steve. He plans to remove all chemicals from buildings

1050 Offsite

Scale: 1 square = _____

Rite in the Rain

Friday February 8th 2019



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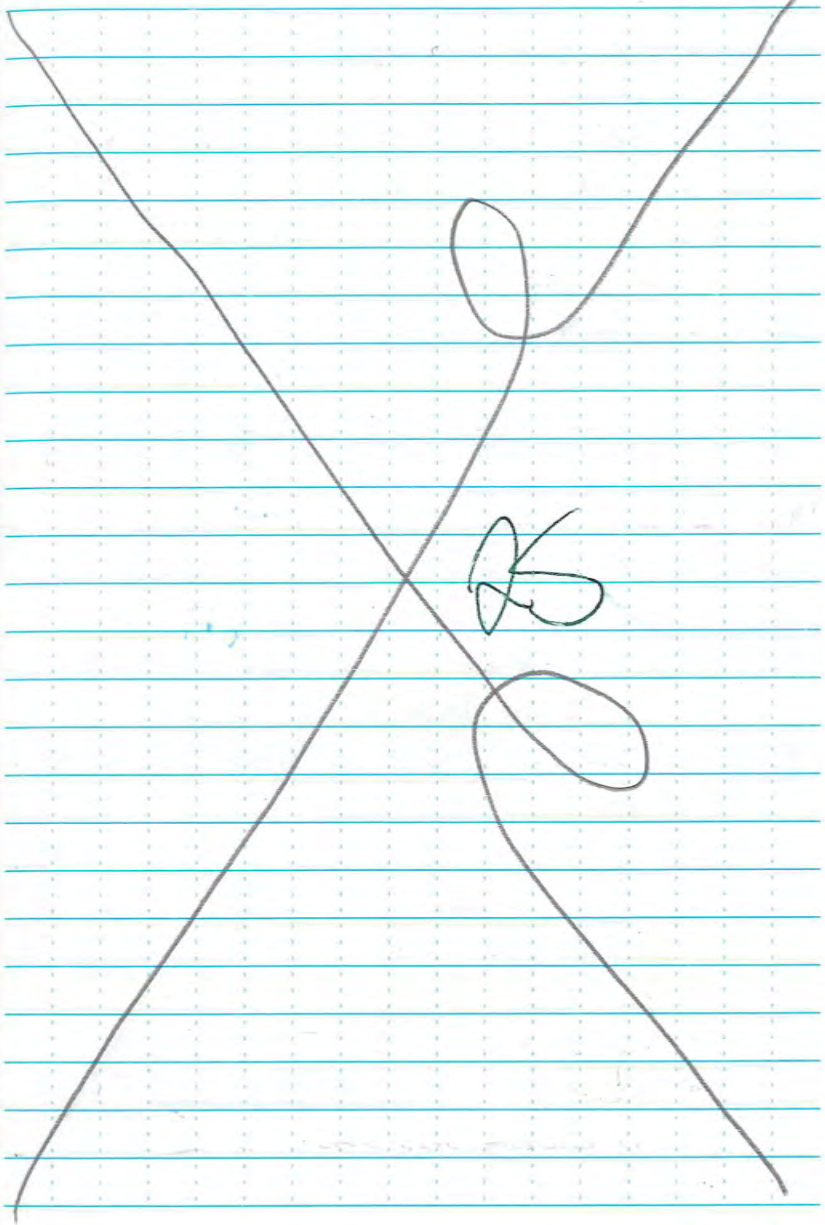


Scale: 1 square = _____

Rite in the Rain

Wednesday February 13th 2019

1350 Jxs onsite

1400 Gain access to site via old wood fence

1405 Begin venting garage space, open both barn doors and run fan on 'hi' setting facing outdoors

1420 Extend fan chute and walk through garage structure w/ fan, airing out all corners and areas for headspace

1430 Resume stable venting on high setting with fan moving air out. Good air flow out Bay 1 in Bay 2

1450 Switch - blow air out Bay 2, good air flow in Bay 1

1510 Done venting, close up garage, pack-up truck

Conditions @ departure:

Wind direction: NE

wind speed: 3 mph

baro pressure: 29.63" Hg

humidity: 73% relative

temperature: 39°F

Rite in the Rain

Ambient air sampling set up. SUMMA canister place on top of a plastic base to keep it out of snow and underneath a table for rain protection. The SUMMA canister was placed on the northwest and upwind corner of the property garage.

Indoor air sampling set up. SUMMA canister elevated above the garage floor and placed within the southwest corner of the property garage.

Thursday 2/14/18

2209 - Indoor

0850: Tank = 26 inHg
Reg = 26 inHg

initial
Wind Direction: N 4 mpH
Pressure = 29.29 inHg
Humidity = 67%
Temp = 39°F

1058: Tank = 20 inHg
Reg = 20 inHg

1251: Tank = 14.5 in Hg
Reg = 14.5 in Hg

4 Hr
Wind = NW 6 mpH
Pressure = 29.14 inHg
Humidity = 59%
Temp = 44°F

1455: Tank = 7 in Hg
Reg = 7 in Hg

1630: Tank = 4 in Hg
Reg = 4 in Hg

end
Wind = NW 4 mph
Pressure = 29.14 in Hg
Humidity = 84%
Temp = 40°F

2209 - outdoor

0850: Tank = 30 inHg
Reg = 28 inHg

1058: Tank = 24 in Hg
Reg = 23.5 in Hg

2 Hr
Wind = NNW 6 mpH
Pressure = 29.2 inHg
Humidity = 65%
Temp = 42° F

1251: Tank = 18 in Hg
Reg = 17 in Hg

1455: Tank = 12 in Hg
Reg = 11 in Hg

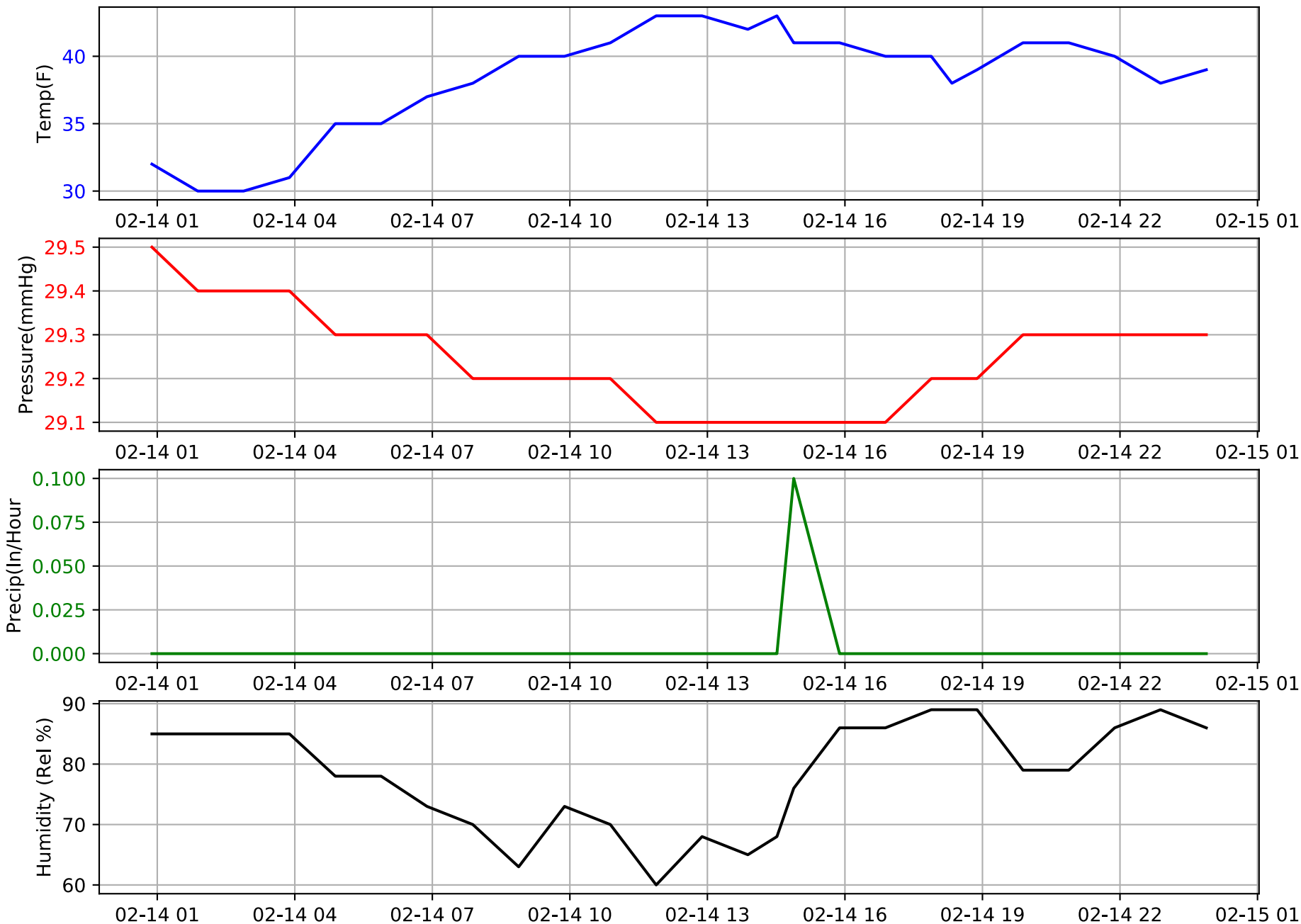
6 Hr
Wind = NE 3 mpH
Pressure = 29.12 in Hg
Humidity = 70%
Temp = 42°F

1630: Tank = 8 in Hg
Reg = 7 in Hg

Rite in the Rain

Montlake Hourly Weather - 02/14/2019

Source: University District Weather Station (KWASEATT109)



Attachment B

Laboratory Report #1902161 (10 pages)

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

Shannon & Wilson
Joseph Sawdey
400 N. 34th Street, Suite 100
Seattle, WA 98103

RE: To LS Montlake DB
Work Order Number: 1902161

February 20, 2019

Attention Joseph Sawdey:

Fremont Analytical, Inc. received 2 sample(s) on 2/14/2019 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,

Mike Ridgeway
Laboratory Director

Date: *02/20/2019*

CLIENT: Shannon & Wilson
Project: To LS Montlake DB
Work Order: 1902161

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Date/Time Collected	Date/Time Received
1902161-001	2209-Indoor	02/14/2019 8:50 AM	02/14/2019 5:15 PM
1902161-002	2209-Outdoor	02/14/2019 8:50 AM	02/14/2019 5:15 PM

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

Case Narrative

WO#: **1902161**

Date: **2/20/2019**

CLIENT: Shannon & Wilson

Project: To LS Montlake DB

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).

Note: Gasoline Range Organics reported in ug/m3 should be considered an estimate. The estimated molecular weight of gasoline used in the equation = 100

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: **Shannon & Wilson**
WorkOrder: 1902161
Project: To LS Montlake DB

Client Sample ID: 2209-Indoor
Lab ID: 1902161-001A
Sample Type: Summa Canister

Date Sampled: 2/14/2019
Date Received: 2/14/2019

Analyte	Concentration		Reporting Limit		Qual	Method	Date/Analyst	
Volatile Organic Compounds by EPA Method TO-15								
	(ppbv)	(ug/m³)	(ppbv)	(ug/m³)				
Benzene	0.340	1.09	0.0895	0.286		EPA-TO-15	02/16/2019	AD
Ethylbenzene	<0.400	<1.74	0.400	1.74		EPA-TO-15	02/16/2019	AD
Gasoline Range Organics	15.2	62.1	1.00	4.09		EPA-TO-15	02/16/2019	AD
m,p-Xylene	<0.800	<3.47	0.800	3.47		EPA-TO-15	02/16/2019	AD
o-Xylene	<0.400	<1.74	0.400	1.74		EPA-TO-15	02/16/2019	AD
Toluene	0.557	2.10	0.400	1.51		EPA-TO-15	02/16/2019	AD
Surr: 4-Bromofluorobenzene	92.1 %Rec	--	70-130	--		EPA-TO-15	02/16/2019	AD

Client: **Shannon & Wilson**
WorkOrder: 1902161
Project: To LS Montlake DB

Client Sample ID: 2209-Outdoor
Lab ID: 1902161-002A
Sample Type: Summa Canister

Date Sampled: 2/14/2019
Date Received: 2/14/2019

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	
Benzene	0.299	0.954	0.0895	0.286		EPA-TO-15	02/16/2019	AD
Ethylbenzene	<0.400	<1.74	0.400	1.74		EPA-TO-15	02/16/2019	AD
Gasoline Range Organics	17.4	71.3	1.00	4.09		EPA-TO-15	02/16/2019	AD
m,p-Xylene	<0.800	<3.47	0.800	3.47		EPA-TO-15	02/16/2019	AD
o-Xylene	<0.400	<1.74	0.400	1.74		EPA-TO-15	02/16/2019	AD
Toluene	0.508	1.91	0.400	1.51		EPA-TO-15	02/16/2019	AD
Surr: 4-Bromofluorobenzene	84.5 %Rec	--	70-130	--		EPA-TO-15	02/16/2019	AD

Date: *2/20/2019*

Work Order: 1902161
CLIENT: Shannon & Wilson
Project: To LS Montlake DB

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **LCS-R49533** SampType: **LCS** Units: **ppbv** Prep Date: **2/15/2019** RunNo: **49533**
Client ID: **LCSW** Batch ID: **R49533** Analysis Date: **2/15/2019** SeqNo: **970949**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	82.1	1.00	72.00	0	114	70	130				
Benzene	1.70	0.0895	2.000	0	85.0	70	130				
Toluene	1.61	0.400	2.000	0	80.3	70	130				
Ethylbenzene	1.69	0.400	2.000	0	84.4	70	130				
m,p-Xylene	3.19	0.800	4.000	0	79.8	70	130				
o-Xylene	1.55	0.400	2.000	0	77.4	70	130				
Surr: 4-Bromofluorobenzene	3.76		4.000		94.1	70	130				

Sample ID **MB-R49533** SampType: **MBLK** Units: **ppbv** Prep Date: **2/15/2019** RunNo: **49533**
Client ID: **MBLKW** Batch ID: **R49533** Analysis Date: **2/15/2019** SeqNo: **970989**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	1.00									
Benzene	ND	0.0895									
Toluene	ND	0.400									
Ethylbenzene	ND	0.400									
m,p-Xylene	ND	0.800									
o-Xylene	ND	0.400									
Surr: 4-Bromofluorobenzene	3.24		4.000		81.0	70	130				

Sample ID **1902160-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **2/15/2019** RunNo: **49533**
Client ID: **BATCH** Batch ID: **R49533** Analysis Date: **2/15/2019** SeqNo: **970953**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Gasoline Range Organics	1,500	1.00						1,561	3.99	30	I
Benzene	18.8	0.0895						18.31	2.73	30	
Toluene	13.0	0.400						12.83	1.21	30	
Ethylbenzene	3.56	0.400						3.364	5.79	30	I
m,p-Xylene	3.39	0.800						3.356	1.06	30	I
o-Xylene	1.25	0.400						1.228	1.98	30	I

Date: *2/20/2019*

Work Order: 1902161
CLIENT: Shannon & Wilson
Project: To LS Montlake DB

QC SUMMARY REPORT

Volatile Organic Compounds by EPA Method TO-15

Sample ID **1902160-001AREP** SampType: **REP** Units: **ppbv** Prep Date: **2/15/2019** RunNo: **49533**
Client ID: **BATCH** Batch ID: **R49533** Analysis Date: **2/15/2019** SeqNo: **970953**

Analyte	Result	RL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Surr: 4-Bromofluorobenzene	4.17		4.000		104	70	130		0		I

NOTES:
I - Indicates an analyte with an internal standard that does not meet established acceptance criteria. A replicate analysis was performed and recovered the internal standard within range. RPD meets acceptance criteria.

Sample Log-In Check List

Client Name:	**SW**	Work Order Number:	**1902161**
Logged by:	**Brianna Barnes**	Date Received:	**2/14/2019 5:15:00 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 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

Date: 2/14/2018 Page: 1 of: 1

Laboratory Project No (Internal): 1902161

Project Name: TO LS Montlake DB

Project No: 21-1-22242-078

Location: 2209 E North St., Seattle

Collected by: CTC

Reports to (PM): Joe Sawdey

Email (PM): jxs@shanwil.com

Special Remarks:
* only analyze for:
-Benzene, Toluene, Ethylbenzene, m,p-Xylene, o-Xylene, Gasoline Organics

Air samples are disposed of one week after report is submitted to client unless otherwise requested. ☒ OK to Dispose ☐ Hold (fees may apply)

Client: Shannon & Wilson
Address: 400 N. 34th St., Suite 100
City, State, Zip: Seattle, WA 98103
Telephone: 206-632-8020
Fax: 206-695-6777

	Sample Name	Canister / Flow Reg Serial #	Sample Date & Time	Sample Type (Matrix) *	Container Type **	Fill Time / Flow Rate	Internal: Initial Evacuation Pressure (mtorr)	Field Initial Sample Pressure (" Hg)	Field Final Sample Pressure (" Hg)	Analysis: VOCs TO15 SCAN	VOCs TO15 SCAN LL	VOCs TO15 SIM	Siloxanes TO15	Sulfur TO15	Sulfur Ext. TO15	APH TO15	Helium	Major Gases 3C	Comments	Internal: Final Pressure ("Hg)
1	2209-Indoor	17647 / FV-3	2/14 0850	IA	6L	8hr	10mtorr / 2/5/2019	26 / 2/14	4 / 2/14	X									* see above	-2
2	2209-outdoor	17235 / FR8-12	2/14 0850	AA	6L	8hr	10mtorr / 2/8/2019	30 / 2/14	8 / 2/14	X									* see above	-7
3																				
4																				
5																				

* Matrix Codes: AA = Ambient Air IA = Indoor Air L = Landfill S = Subslab / Soil Gas

** Container Codes: BV = 1 Liter Bottle Vac 6L = 6L Canister 1L = 1L 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, that I have verified Client's agreement to each of the terms on the front and backside of this Agreement.

Relinquished: [signature] Date/Time: 2/14/2018 17:12
Received: [signature] Date/Time: 2/14/19 1715
Relinquished: Date/Time:
Received: Date/Time:

Turn-Around Time:
☒ Standard
☐ 3 Day
☐ 2 Day
☐ Next Day
Same Day ____ (specify)

Attachment C

Important Information About Your Geotechnical/Environmental Report

SHANNON & WILSON
GEOTECHNICAL AND ENVIRONMENTAL CONSULTANTS

Attachment to and part of Report: 21-1-22242-078
Date: January 29, 2020
To: Mr. Ron Paananen
HDR

Important Information About Your Geotechnical/Environmental Report

CONSULTING SERVICES ARE PERFORMED FOR SPECIFIC PURPOSES AND FOR SPECIFIC CLIENTS.

Consultants prepare reports to meet the specific needs of specific individuals. A report prepared for a civil engineer may not be adequate for a construction contractor or even another civil engineer. Unless indicated otherwise, your consultant prepared your report expressly for you and expressly for the purposes you indicated. No one other than you should apply this report for its intended purpose without first conferring with the consultant. No party should apply this report for any purpose other than that originally contemplated without first conferring with the consultant.

THE CONSULTANT'S REPORT IS BASED ON PROJECT-SPECIFIC FACTORS.

A geotechnical/environmental report is based on a subsurface exploration plan designed to consider a unique set of project-specific factors. Depending on the project, these may include the general nature of the structure and property involved; its size and configuration; its historical use and practice; the location of the structure on the site and its orientation; other improvements such as access roads, parking lots, and underground utilities; and the additional risk created by scope-of-service limitations imposed by the client. To help avoid costly problems, ask the consultant to evaluate how any factors that change subsequent to the date of the report may affect the recommendations. Unless your consultant indicates otherwise, your report should not be used (1) when the nature of the proposed project is changed (for example, if an office building will be erected instead of a parking garage, or if a refrigerated warehouse will be built instead of an unrefrigerated one, or chemicals are discovered on or near the site); (2) when the size, elevation, or configuration of the proposed project is altered; (3) when the location or orientation of the proposed project is modified; (4) when there is a change of ownership; or (5) for application to an adjacent site. Consultants cannot accept responsibility for problems that may occur if they are not consulted after factors that were considered in the development of the report have changed.

SUBSURFACE CONDITIONS CAN CHANGE.

Subsurface conditions may be affected as a result of natural processes or human activity. Because a geotechnical/environmental report is based on conditions that existed at the time of subsurface exploration, construction decisions should not be based on a report whose adequacy may have been affected by time. Ask the consultant to advise if additional tests are desirable before construction starts; for example, groundwater conditions commonly vary seasonally.

Construction operations at or adjacent to the site and natural events such as floods, earthquakes, or groundwater fluctuations may also affect subsurface conditions and, thus, the continuing adequacy of a geotechnical/environmental report. The consultant should be kept apprised of any such events and should be consulted to determine if additional tests are necessary.

MOST RECOMMENDATIONS ARE PROFESSIONAL JUDGMENTS.

Site exploration and testing identifies actual surface and subsurface conditions only at those points where samples are taken. The data were extrapolated by your consultant, who then applied judgment to render an opinion about overall subsurface conditions. The actual interface between materials may be far more gradual or abrupt than your report indicates. Actual conditions in areas not sampled may differ from those predicted in your report. While nothing can be done to prevent such situations, you and your consultant can work together to help reduce their impacts. Retaining your consultant to observe subsurface construction operations can be particularly beneficial in this respect.

A REPORT'S CONCLUSIONS ARE PRELIMINARY.

The conclusions contained in your consultant's report are preliminary, because they must be based on the assumption that conditions revealed through selective exploratory sampling are indicative of actual conditions throughout a site. Actual subsurface conditions can be discerned only during earthwork; therefore, you should retain your consultant to observe actual conditions and to provide conclusions. Only the consultant who prepared the report is fully familiar with the background information needed to determine whether or not the report's recommendations based on those conclusions are valid and whether or not the contractor is abiding by applicable recommendations. The consultant who developed your report cannot assume responsibility or liability for the adequacy of the report's recommendations if another party is retained to observe construction.

THE CONSULTANT'S REPORT IS SUBJECT TO MISINTERPRETATION.

Costly problems can occur when other design professionals develop their plans based on misinterpretation of a geotechnical/environmental report. To help avoid these problems, the consultant should be retained to work with other project design professionals to explain relevant geotechnical, geological, hydrogeological, and environmental findings, and to review the adequacy of their plans and specifications relative to these issues.

BORING LOGS AND/OR MONITORING WELL DATA SHOULD NOT BE SEPARATED FROM THE REPORT.

Final boring logs developed by the consultant are based upon interpretation of field logs (assembled by site personnel), field test results, and laboratory and/or office evaluation of field samples and data. Only final boring logs and data are customarily included in geotechnical/environmental reports. These final logs should not, under any circumstances, be redrawn for inclusion in architectural or other design drawings, because drafters may commit errors or omissions in the transfer process.

To reduce the likelihood of boring log or monitoring well misinterpretation, contractors should be given ready access to the complete geotechnical engineering/environmental report prepared or authorized for their use. If access is provided only to the report prepared for you, you should advise contractors of the report's limitations, assuming that a contractor was not one of the specific persons for whom the report was prepared, and that developing construction cost estimates was not one of the specific purposes for which it was prepared. While a contractor may gain important knowledge from a report prepared for another party, the contractor should discuss the report with your consultant and perform the additional or alternative work believed necessary to obtain the data specifically appropriate for construction cost estimating purposes. Some clients hold the mistaken impression that simply disclaiming responsibility for the accuracy of subsurface information always insulates them from attendant liability. Providing the best available information to contractors helps prevent costly construction problems and the adversarial attitudes that aggravate them to a disproportionate scale.

READ RESPONSIBILITY CLAUSES CLOSELY.

Because geotechnical/environmental engineering is based extensively on judgment and opinion, it is far less exact than other design disciplines. This situation has resulted in wholly unwarranted claims being lodged against consultants. To help prevent this problem, consultants have developed a number of clauses for use in their contracts, reports, and other documents. These responsibility clauses are not exculpatory clauses designed to transfer the consultant's liabilities to other parties; rather, they are definitive clauses that identify where the consultant's responsibilities begin and end. Their use helps all parties involved recognize their individual responsibilities and take appropriate action. Some of these definitive clauses are likely to appear in your report, and you are encouraged to read them closely. Your consultant will be pleased to give full and frank answers to your questions.

The preceding paragraphs are based on information provided by the ASFE/Association of Engineering Firms Practicing in the Geosciences, Silver Spring, Maryland