



Washington State  
Department of Transportation

## SR 520 Bridge Replacement and HOV Program



# Supplemental Limited Phase II Environmental Site Assessment State Route (SR) 520 Eastbound Ramps to Montlake Vicinity 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

**Mitchell Williams, LG  
Senior Geologist**

Reviewed by:

**Glenn A. Hayman, LHg  
Principal Hydrogeologist**

Consultant Team

**Innovex Environmental Management, Inc.  
16310 80<sup>th</sup> Street NE, Suite 300  
Redmond, WA 98052**

**February 21, 2018**

**Supplemental Limited Phase II Environmental Site Assessment  
State Route (SR) 520 Eastbound Off-Ramp to Montlake Vicinity Seattle, Washington**

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**Supplemental Limited Phase II Environmental Site  
Assessment  
State Route (SR) 520 Eastbound Off-Ramp to Montlake  
Vicinity  
Seattle, Washington**

**February 21, 2018**

**Prepared for:**

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

**Prepared by:**



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

We have performed a Phase II Environmental Site Assessment of the (SR) 520 Eastbound Ramps to Montlake Vicinity Seattle, Washington in conformance with the scope and limitations of ASTM Practice E 1903-11 and for the following objectives:

This Supplemental Phase II ESA was conducted to define the extent of impacted and contaminated soil encountered during the initial Phase II ESA (completed during October 2016) and identify potential additional evidence of impacted or contaminated soil present in the subsurface of rights-of-way (ROWs) adjacent to 2625 East Montlake Place East ('76 Gas Station property). These ROWs included East Montlake Place East and the SR 520 Eastbound ramps. Additional investigations are planned for the Montlake '76 gas station property; however, negotiations for access are still in progress.

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Mitchell Williams,  
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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
Dx	Diesel-range petroleum hydrocarbons
Ecology	Washington Department of Ecology
ESA	Environmental Site Assessment
Gx	Gasoline-range hydrocarbons
HCID	Hydrocarbon Identification
KCWTD	King County Wastewater Treatment Division
INNOVEX	Innovex Environmental Management, Inc.
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MS	Matrix Spike
MSD	Matrix Spike Duplicate
MTCA	Model Toxics Control Act
NWTPH	Northwest Total Petroleum Hydrocarbons
OnSite	OnSite Environmental Inc.
PCB	Polychlorinated Biphenyl
PDI	Photoionization Detector
PP-13	Priority Pollutant Metals
Program	SR 520 Bridge Replacement and HOV Program
QA	Quality Assurance
QC	Quality Control
REC	Recognized Environmental Condition
RPD	Relative Percent Difference
SDCI	Seattle Department of Construction and Inspections
SPU	Seattle Public Utilities
SR	State Route
SSAP	Supplemental Sampling and Analysis Plan
SDOT	Seattle Department of Transportation
SVOC	Semivolatile Organic Compound
TPHg	Total Petroleum Hydrocarbons as Gasoline
UST	Underground Storage Tank
VOC	Volatile Organic Compound
WABN	West Approach Bridge North
WAC	Washington Administrative Code
WSDOT	Washington State Department of Transportation



## **1.0 INTRODUCTION**

### **1.1 Authorization**

Innovex Environmental Management (INNOVEX) has completed this Supplemental Phase II Environmental Site Assessment (ESA) of the City of Seattle and Washington State Department of Transportation (WSDOT) right-of-way in the vicinity of 2625 East Montlake Place East, Seattle, Washington. The project was completed in support of the WSDOT SR520 Bridge Replacement and HOV Program (PROGRAM).

Field activities were conducted in accordance with the Supplemental Sampling and Analysis Plan (SSAP) prepared and submitted to WSDOT (dated October 16, 2017). Any deviations from the SSAP are summarized in the Phase II ESA Activities section of this report.

### **1.2 Objective**

This Supplemental Phase II ESA was conducted to define the extent of impacted and contaminated soil encountered during the initial Phase II ESA (completed during October 2016) and identify potential additional evidence of impacted or contaminated soil present in the subsurface of rights-of-way (ROWS) adjacent to 2625 East Montlake Place East ('76 Gas Station property). These ROWs included East Montlake Place East and the SR 520 Eastbound ramps. Additional investigations are planned for the Montlake '76 gas station property; however, negotiations for access are still in progress.

The completed scope of this investigation included the following tasks:

- Five soil borings were advanced in order to collect soil and, if encountered, groundwater samples for chemical analysis.
- Soil samples were collected and analyzed to determine if petroleum related contamination is present in the soil beneath the offsite, cross- to down-gradient locations.
- One soil sample from each boring was selected and submitted for laboratory and analyzed for site contaminants of concern. Additional samples were selected and analyzed based on field observations and initial analytical results with the approval of the WSDOT Project Manager.
- The results of this Supplemental Phase II investigation will be used to assist WSDOT in management of potential environmental risks during property acquisition and subsequent reconstruction of the SR 520 Eastbound on and off ramps and East Montlake Place East.



## **2.0 SITE BACKGROUND**

The areas investigated for the original Phase II ESA and this Supplemental Phase II ESA are the City of Seattle and WSDOT SR 520 rights-of-way in the vicinity of 2625 East Montlake Place East, Seattle, Washington. The investigation took place in the northeast quarter of Township 25 North, Range 4 East and Section 21.

During 2016 a Phase II ESA was completed for the City of Seattle and WSDOT SR 520 rights-of-way. The Phase II ESA included the advancement of five soil borings (H-1-16, H-2-16, H-3-16, H-4-16 and H-5-16), which were located around the northern, western and eastern perimeters of the gas station property (Figure 2). Soil and groundwater analytical results indicated the following:

- Total Petroleum Hydrocarbons (TPH) as gasoline was detected in two soil samples from boring H-4-16.
- VOCS were detected in soils samples from soil borings H-2-16, H-3-16, H-4-16 and H-5-16. VOCs above the applicable cleanup level were detected soil samples from borings H-3-16, H-4-16, and H-5-16. Concentrations of benzene, ethylbenzene, total xylene, naphthalene, and methylene chloride were detected above applicable cleanup levels.
- SVOCs were detected in soils samples from soil borings H-2-16, H-3-16, H-4-16 and H-5-16. One SVOC, naphthalene, was detected above the applicable cleanup level in a soil sample from borings H-4-16.
- PCBs were not detected in any of the soil samples analyzed.
- Chromium, copper, lead, nickel and zinc were present in soil samples from each of the five boring at concentrations above the analytical method reporting limit. Copper and nickel were detected at concentrations above the applicable cleanup level.
- One groundwater sample was collected from boring H-3-16 and was analyzed for VOCs, SVOCs and dissolved metals. Three VOCs (benzene, bromochloromethane, and chloroform); and two dissolved metals (antimony and arsenic) were detected in concentrations greater than the applicable cleanup levels

## **3.0 PHASE II ESA ACTIVITIES**

### **3.1 Scope of Assessment**

A sampling and analysis plan was developed (INNOVEX, 2017) to investigate recognized environmental conditions (RECs) identified in the Limited Phase I ESA (WSDOT 2016) and to further assess for impacts to the property soil and groundwater. A total of five soil borings were drilled. Six subsurface soil samples were collected and submitted to OnSite Environmental Inc. in Redmond, Washington for chemical analysis. Our rationale and the results for the exploration program are summarized below.

### **3.2 Conceptual Site Model and Sampling Plan**

In order to provide a framework for evaluating data gaps and subsequent analytical data, a conceptual site model (CSM) depicting 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-specific conditions.

Based on background information previously presented, the contaminants of potential concern (COPCs) identified for the site included:

- Gasoline-range hydrocarbons
- Diesel-range petroleum hydrocarbons
- Oil-range petroleum hydrocarbons
- Polychlorinated Biphenyls (PCBs)
- Volatile Organic Compounds (VOCs)
- Semi-volatile Organics (SVOCs)
- RCRA Metals

### **3.3 Utility Location**

Overhead power lines related to operation of the King County Metro electric trolleys were present along East Montlake Place East. WSDOT coordinated the trolley line deactivation for safety purposes. A combined sewer and siphon trunk line system of stormwater conveyance structures operated by King County are present below the SR 520 Eastbound on and off ramps. During preliminary field reconnaissance and during the first 25 feet of drilling at boring H-7-17, the King County Wastewater Treatment Division provided an inspector/investigator to assist with locating the structures. In addition, Holocene Drilling (Holocene) advanced through the first five feet of each boring using high pressure water jets and a vactor truck in order to avoid disruption of any unidentified utilities. Innovex coordinated the remaining utility locates.

### **3.4 Permits, Noise and Traffic Control**

WSDOT obtained a Street Use permit from SDOT for the traffic control and investigation work on East Montlake Place East. In addition, WSDOT obtained a temporary noise variance from the Seattle Department of Construction and Inspections (SDCI) to allow the drilling to be conducted at night, and reducing the impacts to traffic and local businesses.

The project office provided WSDOT approved traffic control plans for the SR 520 Eastbound ramps and INNOVEX subcontracted Altus, Inc. to implement the plans.

### **3.5 Sonic Drilling**

Five soil borings were advanced by Holocene using a sonic drill rig. Fieldwork was conducted on the nights of October 21, 22, 23, 24 and 25, 2017. Five boring locations were planned to determine the extent of petroleum contamination identified within the East Montlake Place East and SR 520 Eastbound ramp rights-of-way in the initial Phase II ESA report.

Drilling equipment was decontaminated at the WSDOT WABN Laydown Yard on Lake Washington Boulevard at the start of drilling and after each night's work. Investigation-derived waste in the form of drilling cuttings and decontamination water was also staged using secondary containment measures and stored at the WSDOT yard.

### **3.6 Soil and Groundwater Sampling**

A total of 41 soil samples were recovered from the soil borings at approximate 5-foot intervals using 18-inch standard penetration test (SPT) split spoon sampler advanced in front of the sonic drill head.

An aliquot of material recovered from each drilling interval was placed in a ziplock bag and allowed to volatilize for approximately 15-minutes. If the recovery percentage allowed, the aliquot was collected from the SPT. At some deeper depths the SPT was advanced into dense till and the recovery percentage was poor or zero. In these cases (marked in the boring logs) the aliquot was collected from the sonic drill core. The headspace within the ziplock bag was evaluated for organic vapors using a photoionization detector (PID). The soil sample from the depth with the highest PID reading was selected for chemical analysis. An additional soil sample was collected from Boring H-7-17.

No petroleum odors and/or elevated photoionization detector (PID) readings were noted in soil samples from four of the five borings (H-6-17, H-8-17, H-9-17 and H-10-17).

Elevated PID readings and petroleum-odors were observed in soil samples collected from the 10-foot and the 20-foot intervals from Boring H-7-17. The soil aliquot collected from the 10-foot interval had a PID reading of 9.1 ppm. The aliquot collected from the 20-foot interval had a reading of 4.8 ppm. The soil sample collected from the 20-foot interval also represents the contact with dense glacial till. The 15-foot interval from Boring H-7-17 did not have elevated PID readings or petroleum odors. The soil samples from the 10-foot and 20-foot intervals were selected for chemical analysis. It should be noted that the previously-mentioned King County combined sewer and associated trenching and construction (piping and pea gravel fill material) is located in close proximity to the depths where elevated PID readings and petroleum odors were recorded. Boring Logs are included in Appendix A.

No other soil samples revealed elevated PID readings or petroleum odors.

Groundwater was not encountered during the drilling of the five borings.

### 3.7 Analytical Methods

The contaminants of potential concern (COPCs) identified for the site include petroleum hydrocarbon related constituents. Selected soil samples were analyzed to determine the concentrations of these COPCs using the following methods:

Hydrocarbon Identification (HCID) – Northwest Total Petroleum Hydrocarbon (NWTPH) HCID

Gasoline-range hydrocarbons – NWTPH-Gx

Diesel-range petroleum hydrocarbons – NWTPH-Dx

Oil-range petroleum hydrocarbons – NWTPH-Dx

Polychlorinated Biphenyls (PCBs) – EPA Method 8082

Volatile Organic Compounds (VOCs) – EPA Method 8260

Semi-volatile Organics (SVOCs) – EPA Method 8270

RCRA Metals – EPA Method 6010

### 3.8 Site Cleanup Levels

Soil cleanup levels for the site were identified using the Model Toxics Control Act (MTCA) regulation (WAC 173-340). MTCA soil cleanup levels are tabulated in Ecology's CLARC table available at: <https://fortress.wa.gov/ecy/clarc/FocusSheets/CLARC%20Master%20Spreadsheet.xlsx>.

The most commonly applied cleanup levels are Method A for Unrestricted Land Use and Method B. Applicable cleanup levels for detected analytes are summarized in Table 2.

Selecting soil cleanup levels required the incorporation of cleanup levels protective of groundwater because of the 10- to 12-foot depth to groundwater reported in the three WSDOT piezometers discussed in the Site Geology and Hydrogeology described in the initial Phase II ESA (2016). The resulting Site soil cleanup levels are summarized in Table 3.

#### 3.8.1 Soil Analytical Results

Detected analytes in soil are summarized in the following tables:

- Table 1 HCID Soil Analytical Results
- Table 2 VOCs
- Table 3 SVOCs
- Table 4 PAH TEFs
- Table 5 PCBs
- Table 6 RCRA Metals

The analytical reports are included in Appendix B.

HCID analysis did not detect total petroleum hydrocarbons in any of the soil samples (Table 1). As a result, further analyses for total petroleum hydrocarbons was not requested.

VOCs were not detected in the analyzed soil sample from borings H-6-17, H-8-17, H-9-17 or H-10-17. Select VOCS including benzene, toluene, ethylbenzene, total xylenes (BTEX) and acetone were detected below applicable cleanup levels in soils samples from the 20-foot depth of boring H-7-17 (Table 2).

SVOCs were not detected in any analyzed soil samples except the sample collected from the 10-foot interval from boring H-7-17. The detected SVOCs consisted of polycyclic aromatic hydrocarbons (PAHs) and were evaluated by calculating a toxicity equivalent soil concentration (TEC, Table 4). No SVOCs, including PAHs were detected above the applicable cleanup levels.

PCBs were not detected in any of the soil samples analyzed (Table 5).

Barium and chromium were detected below applicable CULs in all five borings. Lead was detected below the applicable CUL in the soil sample collected from the 10-foot interval in boring H-7-17 (Table 6).

### **3.8.2 Groundwater Analytical Results**

Groundwater was not encountered during the drilling of the five borings.

### **3.9 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 VOCs, PAHs, PCBs, MTCA metals, and TPHs were determined by INNOVEX to be as qualified acceptable for all purposes following evaluation of the quality control specifications presented in the SSAP; 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.

OnSite followed most recent version 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 SSAP, with the exception of the deviations described in the above section.

### **3.10 Disposal of Investigation Derived Waste (IDW)**

IDW 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 followed by proper disposal.

## 4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the results of the 2016 Phase II ESA, and the findings presented above, we offer the following conclusions for the investigation area. See Figure 4 for a summary of the analytical results from both the 2016 and the 2017 Phase II ESA investigations.

Gasoline related analytes and compounds were detected in the soil sample from boring H-7-17 collected from a depth of 20 feet. Benzene was the only compound detected at a concentration above the applicable MTCA cleanup level. The soil samples from the other four borings did not contain detectable concentrations of analytes.

Based on the results of the five soil borings completed during October 2017, the subsurface below the SR 520 Eastbound on ramp does not appear to have been impacted by petroleum releases except for the area below soil boring H-7-17 and the King County combined sewer and siphon trunk line system. During the drilling of H-7-17, petroleum odors were noted and elevated concentrations of petroleum constituents were reported to be present between 10- and 20-feet bgs. Subsurface soil encountered in this area may have been impacted by a petroleum release and may require special accommodation during any potential redevelopment process.

Typical sewer utility trench construction involves the removal of native soil and the application of fill (pea gravel) with a greater permeability. Innovex recommends that WSDOT review available as-built drawings of the sewer/trunk line construction with the purpose of understanding how the alignment and materials used in the construction may have influenced the migration of contaminants at the site.

Groundwater was not encountered during this investigation.

The two Phase II ESA investigations did not confirm the source of the contamination found. The 2016 boring were located adjacent to the 2625 East Montlake Place East property. The 2017 borings were located farther from the 2625 East Montlake Place East property. Contaminant concentrations detected in the 2017 samples were significantly less than the concentrations detected in the 2016 samples (Figure 4).

It is recommended that the investigation presented in the approved SSAP be completed to determine the source of contamination.

### 4.1 Remediation Methods

Based on the absence of groundwater, it is our opinion that any contaminated soil discovered during the redevelopment of the site could be remediated using excavation and disposal. The resulting excavation could be treated with an appropriate bioremediation product to enhance the breakdown of contaminants. An institutional control such as a deed restriction would likely be necessary if contaminated soil remained in the subsurface.

## **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
- WSDOT (Washington State Department of Transportation), 2016. Limited Phase I Environmental Site Assessment State Route (SR) 520 Montlake '76 Gasoline and Service Station, Seattle, Washington
- Lasmanis, Raymond, 1991. The Geology of Washington Rocks and Minerals. Volume 66, No. 4, p. 262-277.



## **FIGURES**

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**DESIGNED BY**

Innovex Environmental

Mitch Williams

**DRAWN BY**

ICD

August 30, 2016

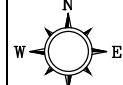


16310 NE 80th St., Suite 300

Redmond, WA 98052

(800) 988-7880

0 1000 2000  
SCALE IN FEET



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

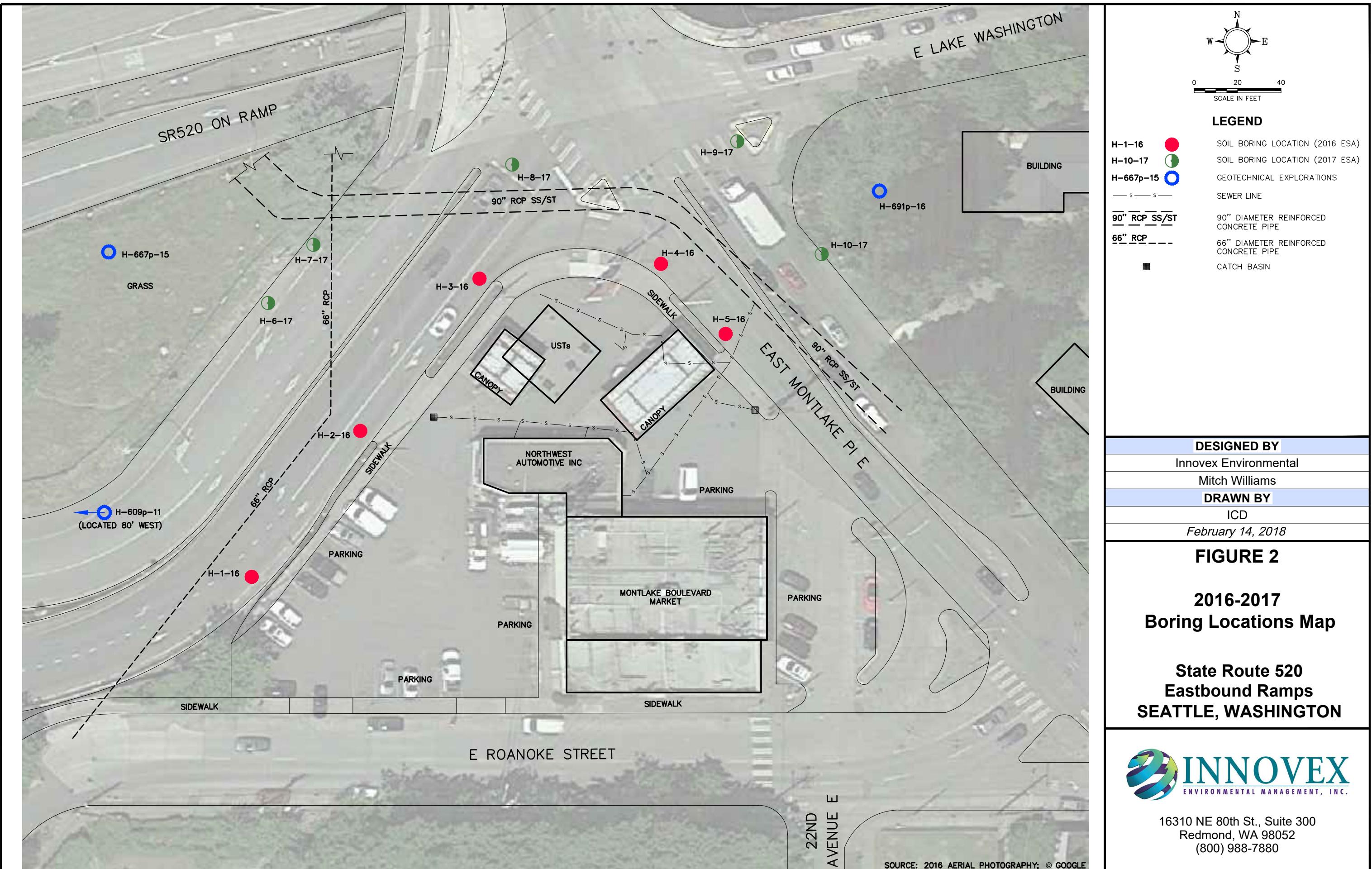
© 2016 INNOVEX ENVIRONMENTAL MANAGEMENT, INC.  
7.5 MINUTE ADIRONDACK MAP  
SEATTLE NORTH, WASHINGTON

**FIGURE 1**

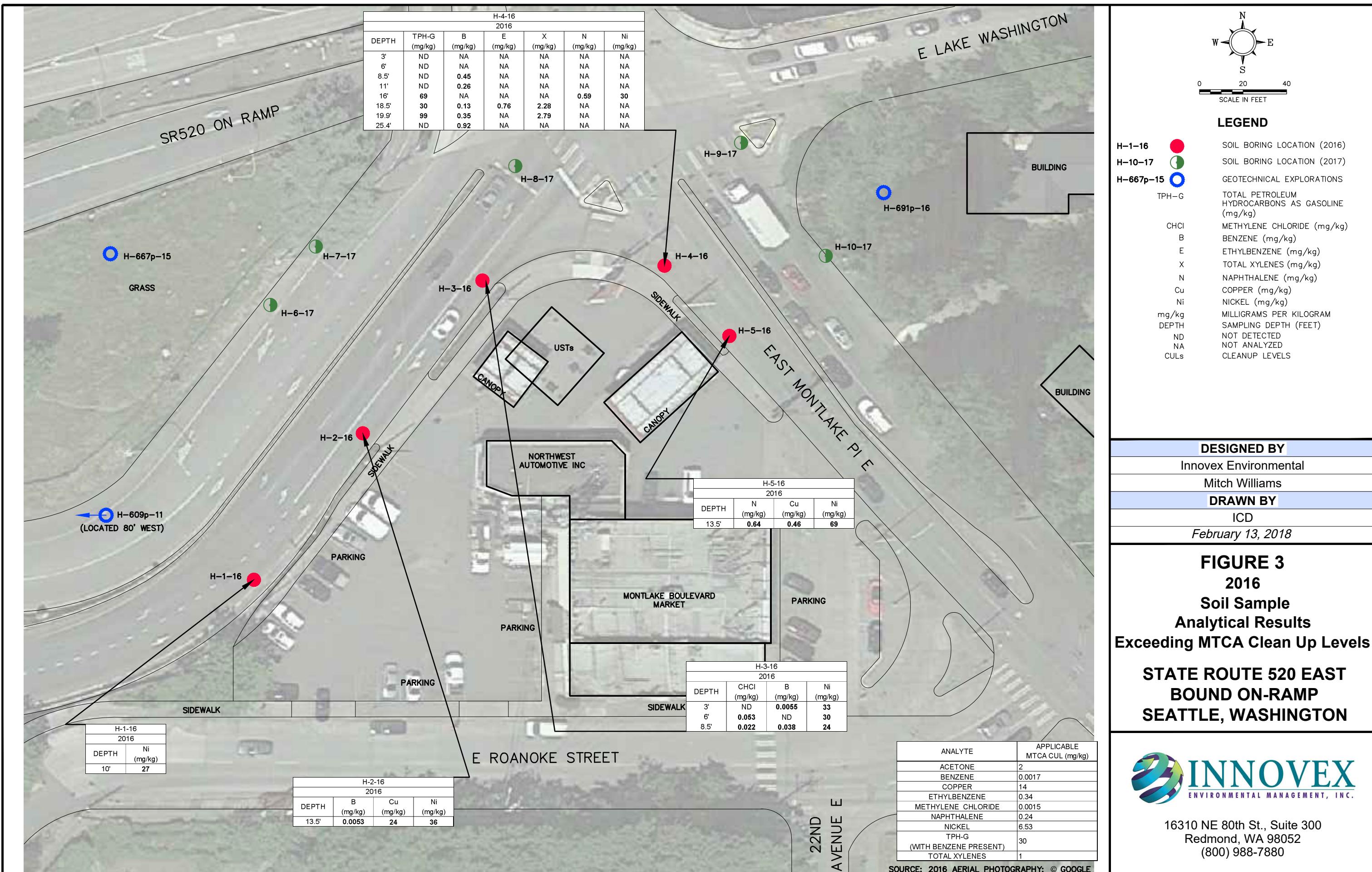
**Site Location Map**

**State Route 520  
Eastbound Ramps  
SEATTLE, WASHINGTON**

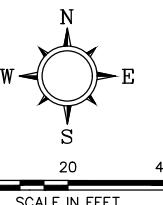
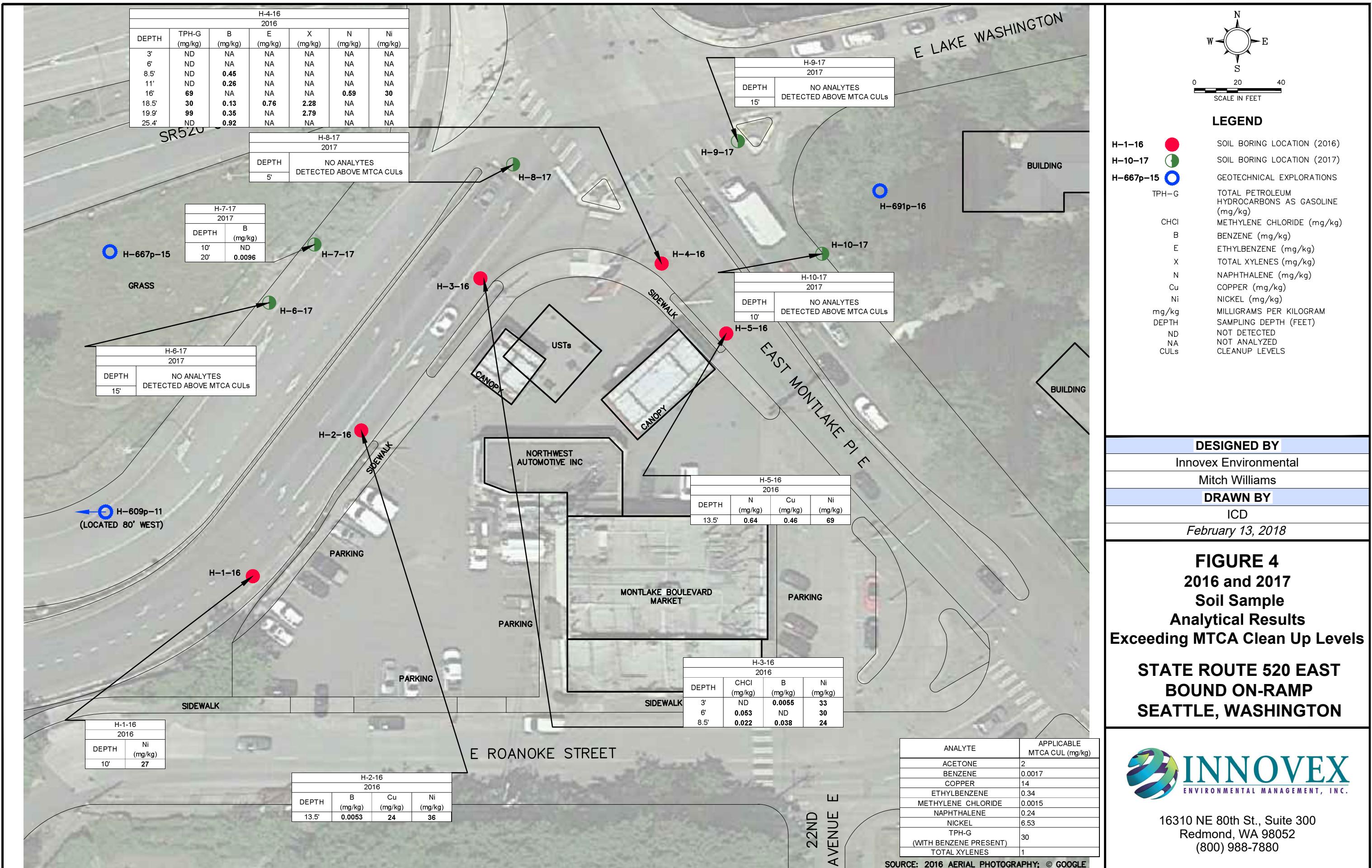












#### LEGEND

<b>H-1-16</b>	●	SOIL BORING LOCATION (2016)
<b>H-10-17</b>	●	SOIL BORING LOCATION (2017)
<b>H-667p-15</b>	○	GEOTECHNICAL EXPLORATIONS
TPH-G		TOTAL PETROLEUM HYDROCARBONS AS GASOLINE (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)
mg/kg		MILLIGRAMS PER KILOGRAM
DEPTH		SAMPLING DEPTH (FEET)
ND		NOT DETECTED
NA		NOT ANALYZED
CULs		CLEANUP LEVELS

**INNOVEX**  
ENVIRONMENTAL MANAGEMENT, INC.

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



## **TABLES**

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**Table 1. HCID Soil Analytical Results, SR 520 Eastbound Off-Ramp  
to Montlake Vicinity Seattle, Washington**

Sample ID	Sample Date	Sample depth (ft.)	TPHg (mg/kg)	TPHd (mg/kg)	TPHo (mg/kg)
H-6-17-15	10/22/2017	15	ND	ND	ND
H-9-17-15	10/21/2017	15	ND	ND	ND
H-10-17-10	10/22/2017	10	ND	ND	ND
H-8-17-5	10/24/2017	5	ND	ND	ND
H-7-17-10	10/23/2017	10	ND	ND	ND
H-7-17-20	10/23/2017	20	ND	ND	ND

ND Not Detected

Table 2: Volatile Organic Compounds Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington

Sample ID	Sample Date	Sample depth (ft.)	Acetone (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)	1,3,5-Trimethylbenzene (mg/kg)	1,2,4-Trimethylbenzene (mg/kg)	sec-Butyl-benzene (mg/kg)	p-Isopropyl-toluene (mg/kg)	n-Butyl-benzene (mg/kg)	Naphthalene (mg/kg)
H-6-17-15	10/22/2017	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-9-17-15	10/21/2017	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-10-17-10	10/22/2017	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-8-17-5	10/24/2017	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-7-17-10	10/23/2017	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-7-17-20	10/23/2017	20	0.078	ND	0.014	0.0096	ND	0.0022	0.0024	0.0012	0.0035	ND	0.0015	ND	ND	ND	0.0027
<b>MTCA Cleanup Level</b>			<b>2</b>	<b>0.0015</b>	<b>48000</b>	<b>0.0017</b>	<b>0.27</b>	<b>0.34</b>	<b>9</b>	<b>8000</b>	<b>8000</b>	<b>800</b>	<b>No CUL</b>	<b>8000</b>	<b>No CUL</b>	<b>4000</b>	<b>0.24</b>

-- Not Analyzed

ND Not Detected

99 Exceeds Cleanup Level

H - The result indicated is a common laboratory contaminant and may have been introduced during sample preparation.

Table 3. Semi Volatile Organic Compounds Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington

Sample ID	Sample Date	Sample Depth	Naphthalene (mg/kg)	2-Methylnaphthalene (mg/kg)	1-Methylnaphthalene (mg/kg)	Phenanthrene (mg/kg)	Fluoranthene (mg/kg)	Pyrene (mg/kg)	Benzo[a]anthracene (mg/kg)	Chrysene	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-6-17-15	10/22/2017	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-9-17-15	10/21/2016	15	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-10-17-10	10/22/2016	10	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-8-17-5	10/24/2017	5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
H-7-17-10	10/23/2017	10	ND	ND	ND	0.019	0.027	0.041	0.017	0.019	0.020	0.020	ND	0.013	ND	0.014
H-7-17-20	10/23/2017	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MTCA Cleanup Level			0.24	320	34	No CUL	3200	32.8	0.137	0.137	0.137	0.137	0.137	0.137	0.137	No CUL

ND = No Detected

Table 4. PAH TEF Calculations

From: [gov/ecy/clarc/FocusSheets/tef.pdf](http://gov/ecy/clarc/FocusSheets/tef.pdf) (last page of document)

Step 1: Analyze the cPAH mixture at the site to determine the solid concentration of each cPAH

Step 2: For each cPAH identified at the site, multiply the soil concentration (Column 2) by the

Step 3: Add the products in step 2 to obtain the total toxicity equivalent soil concentration (TTEC) for

Step 4: Compare the TTEC for the cPAH mixture (0.133 mg/kg) with the Method B cleanup level for

Compare sum to Method B CUL for Benzo(a)pyrene (0.137 mg/kg)

**H-7-17-10'**

	Concentration (mg/kg)	TEF (unitless)	Toxicity Equivalent Soil Concentration (mg/kg)
Benzo(a)pyrene	0.021	1.00	0.021
Benzo(a)anthracene	0.052	0.1	0.0052
Benzo(b)fluoranthene	0.045	0.1	0.0045
Benzo(k)fluoranthene	0.014	0.1	0.0014
Chrysene	0.065	0.01	0.00065
Dibenzo(ah,h)anthracene	nd	0.1	0
Indeno(1,2,3-cd)pyrene	0.021	0.1	0.0021
		<b>SUM</b>	<b>0.03485</b>

**Table 5. Polychlorinated Biphenyls Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington**

Sample ID	Sample Date	Sample depth (ft.)	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-6-17-15	10/22/2017	15	ND						
H-9-17-15	10/21/2016	15	ND						
H-10-17-10	10/22/2016	10	ND						
H-8-17-5	10/24/2017	5	ND						
H-7-17-10	10/23/2017	10	ND						
H-7-17-20	10/23/2017	20	ND						

ND Not Detected

**Table 6. Metals Detected in Soil Samples, SR 520 Eastbound Off-Ramp to Montlake Vicinity, Seattle, Washington**

Sample ID	Sample Date	Sample depth (ft.)	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-6-17-15	10/22/2017	15	ND	47	ND	33	ND	ND	ND	ND
H-9-17-15	10/21/2016	15	ND	63	ND	37	ND	ND	ND	ND
H-10-17-10	10/22/2016	10	ND	35	ND	27	ND	ND	ND	ND
H-8-17-5	10/24/2017	5	ND	69	ND	35	ND	ND	ND	ND
H-7-17-10	10/23/2017	10	ND	59	ND	37	6.0	ND	ND	ND
H-7-17-20	10/23/2017	20	ND	42	ND	35	ND	ND	ND	ND
MTCA Cleanup Level			20	82.6	2	2000	250	2	400	400

ND Not Detected

**22** Exceeds Cleanup Level

## **APPENDICES**

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**APPENDIX A**  
**BORING LOGS**

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Project: MONROE / 520		Project Number: 31008		Client: HDR	Boring No. H-6-17		
Address, City, State		Drilling Contractor: HOLOCENE		Drill Rig Type: SONIC			
Logged By: M. Williams		Date	Started: 10.22.17	Bit Type:	Diameter: 4.25		
Drill Crew: HOLOCENE			Completed: 10.23.17	Hammer Type:			
USA Ticket Number:			Backfilled: 10.23.17	Hammer Weight: 40lb	Hammer Drop:		
		Groundwater Depth: NA	Elevation:	Total Depth of Boring: 50'			
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	Lithology	PID	Recovery %	Additional Test
10.08		143					
10.22		1200		MED BROWN SILTY CLAY, MOIST, VERY LOOSE SAND. MED BR SILTY SAND (F-M) MOIST. DENSE. 8 1/2" THIN (3") SILTY CLAY WITHIN SAND	0.0	25	
10.48		732		MED BROWN SILTY SAND (F-M GRAINED) W/ OCCASIONAL RED MATTEK. MOIST, MED DENSE. MINOR GRVL (5%, 1/2-3/4") DIA. SUBROUNDED. WOOD FRAGMENTS (FILL)	0.0	50	
11.20		45 50% 45 50% 6		MED GREY SILTY SAND (F-M GRAINED) W/ MINOR GRVL (1/4"-3") SUBROUNDED, VERY DENSE, DRY. RED MATTEK (TILL) MED GREY SILTY SAND (F-M GRAINED) W/ MINOR GRVL (10%, 1/4-1/2") DIA. SUBROUNDED - SUBANGULAR, DRY VERY DENSE (TILL)	0.1	100	



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
- Shelby Tube
- CPP Sampler

Bulk/ Bag Sample

Boring Log: Sheet 1 of 2

- Stabilized Ground water
- Groundwater At time of Drilling

Project: MONTELAKE / 520		Project Number: 31008	Client:	Boring No. 1.6.17			
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	Lithology	PID	Recovery %	Additional Test
12.08		50		SAA (TLL)	0.0	100	
30	13						
12.48		59		SAA (TLL)	0.0	10	
35							
1.28		59		SAA (TLL)	0.0	10	
40							
3.08		59		SAA (TLL)	0.0	10	
45							
4.10		59		SAA (TLL)	0.0	10	
50							



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
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Bulk/ Bag Sample

Boring Log: Sheet 2 of 2

Stabilized Ground water  
Groundwater At time of Drilling

Project: <b>MONILAKE 1 S20</b>		Project Number: <b>31008</b>		Client:	Boring No. <b>14.7.17</b>	
Address, City, State		Drilling Contractor: <b>Hocene</b>		Drill Rig Type: <b>SONIC</b>		
Logged By: <b>M. Williams</b>		Date Started: <b>10.23.17</b> Completed: <b>10.24.17</b> Backfilled: <b>10.24.17</b>	Bit Type:	Diameter: <b>4.25</b>		
Drill Crew: <b>Hocene</b>			Hammer Type:			
USA Ticket Number:			Hammer Weight: <b>40lb</b>	Hammer Drop:		
		Groundwater Depth: <b>N/A</b>	Elevation:	Total Depth of Boring: <b>50</b>		
Lithology						
<p><u>Soil Group Name:</u> modifier, color, moisture, density/consistency, grain size, other descriptors</p> <p><u>Rock Description:</u> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.</p>						
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	PID	Recovery %	
10.00		51.8				
5		11	MED GREY SILTY SAND (F-M GRAINED) MOIST. MEDIUM DENSE. MINOR (5%) GRVL (1/8 - 1/2" DIA) SUBROUNDEN - SUBANGULAR	2.5	50	
10.10	-	11	SAT. PETROLEUM ODOR	9.1	75	
10.35		41 50% 5	MED GREY SILTY SAND (F-M GRANDED) Slightly moist. DRY, DENSE. MINOR GRVL (1/2"-3") RED MOTTLED. NO ODOR.	0.4	80	
11.03			SAT. PETROLEUM ODOR.	4.8	50	
11.38		50%	SAT	6.6	20	



Standard Penetration Slit Spoon Sampler (SPT)

California Sampler

Shelby Tube

CPP Sampler

Bulk/ Bag Sample

Boring Log: Sheet 1 of 2

Stabilized Ground water

Groundwater At time of Drilling

Project: MONILAKE 15-20			Project Number: 31008	Client: HDR	Boring No. 4.7.17
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Lithology		
			<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.		
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	PID	Recovery %
12.20		50/14	SAT	1.1	60
12.50		50/11	SAT	0.9	70
15.2		50/1	SAT	1.0	100
21.9		50/2	SAT	2.1	100
31.5		50/1	SAT	0.8	60



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
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- CPP Sampler



Bulk/ Bag Sample

Boring Log: Sheet 2 of 2

Stabilized Ground water  
Groundwater At time of Drilling

Project: MONILAKE / 520		Project Number: 31008	Client:	Boring No. H-8-17
Address, City, State		Drilling Contractor:	Drill Rig Type:	SONIC
Logged By: M. Williams	Date Started: 10.24.17 Completed: 10.25.17 Backfilled: 10.25.17	Bit Type:	Diameter:	4.25
Drill Crew: HOLOCENE		Hammer Type:		
USA Ticket Number:		Hammer Weight: 40lb.	Hammer Drop:	
Groundwater Depth: NA		Elevation: ✓	Total Depth of Boring:	50'
Lithology	Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log
				<b>Soil Group Name:</b> modifier, color, moisture, density/consistency, grain size, other descriptors  <b>Rock Description:</b> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.
10.33	5	15 26 S0/S		MED GREY SILTY SAND (F-M GRAINED). MED DENSE, MINOR (15%) GRVL (1/2-3 1/2") SLIGHTLY MOIST, (INCREASED) MOISTURE @ 6-7'. (TILL).
10.39	10	50% 2		MED GREY SILTY SAND (F GRAINED), DENSE MINOR (15%) GRVL (SUBROUNDING - SUBANGULAR), DRY.
11.32	15	59		SAP
11.56	20	50/3		SAP
12.32	25	50/4		SAP



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
- Shelby Tube
- CPP Sampler

Bulk/ Bag Sample

Boring Log: Sheet 1 of 2

- Stabilized Ground water
- Groundwater At time of Drilling

Project: MONILAKE / 520			Project Number: 31008	Client: HDR	Boring No. H-8-17
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Lithology		
			<u>Soil Group Name:</u> modifier, color, moisture, density/consistency, grain size, other descriptors <u>Rock Description:</u> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.		
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	PID	Recovery %
12.48					
30	501		MEDGREY SILTY SAND (F-M GR). DENSE SILTY SAND MATERIAL IS DRY INTERNALLY BUT MOISTURE IN SPT -	0.3	25
35	501		SAA. STOPPED DRILLING FOR 35 MIN TO WAIT FOR POSSIBLE WATER ACCUMULATION. ATTEMPTED TO BAIL BUT INSUFFICIENT WATER.	0.5	30
40	501		SAA. ATTEMPTED TO BAIL FOR 2nd TIME - INSUFFICIENT WATER.	0.4	10
45	501		SAA. - ATTEMPTED TO BAIL FOR 3rd TIME - INSUFFICIENT WATER. COLLECTED SOIL SAMPLE FROM SONIC "BAG".	0.4	0
50	501		SAA. COLLECTED SOIL SAMPLE FROM SONIC "BAG".	0.4	0



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
- Shelby Tube
- CPP Sampler



Bulk/ Bag Sample

Boring Log: Sheet 2 of 2

Stabilized Ground water  
Groundwater At time of Drilling

Project: MONILAKE / 520		Project Number: 31008	Client: HDR	Boring No. H9.17			
Address, City, State		Drilling Contractor: HOLOCENE	Drill Rig Type: SONIC				
Logged By: M. Williams		Date Started: 10.22.17 Completed: 10.22.17 Backfilled: 10.22.17	Bit Type:	Diameter: 4.25			
Drill Crew: HOLOCENE			Hammer Type: 40lb				
USA Ticket Number:			Hammer Weight: 40lb	Hammer Drop:			
		Groundwater Depth: NA	Elevation:	Total Depth of Boring: 20'			
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	Lithology  <u>Soil Group Name:</u> modifier, color, moisture, density/consistency, grain size, other descriptors  <u>Rock Description:</u> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.	PID	Recovery %	Additional Test
10.15		4 6 7		NO RECOVERY		0	
10.30		20 20 25		GREY SILTY SAND (F-M GRAINED) W/MINOR CLAY. MEDIUM DENSE. DRY	0.3	100	
11.00		45 50 1/4		GREY SILTY SAND (F-M GRAINED). DENSE. MOIST - (POSSIBLY WATER FROM SURFACE)	0.4	80	
11.19		50 1/2		SILTY SANDY CLAY (MINOR CLAY - 20%). DENSE. DRY. MINOR GRVL (1/4 - 1/2") SUBROUNDED - SUBANGULAR (TILL)	0.5	100	
11.23		50 1/3		SILTY SAND (TILL) GREY. DRY. VERY DENSE. MINOR GRVL (1/4 - 3/4") SUBROUNDED - SUBANGULAR (TILL)	0.8	25	



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
- Shelby Tube
- CPP Sampler

Bulk/ Bag Sample

Boring Log: Sheet 1 of 2

- Stabilized Ground water
- Groundwater At time of Drilling



## Boring Log: Sheet 2 of 2

- Standard Penetration Slit Spoon Sampler (SPT)
  - California Sampler
  - Shelby Tube
  - CPP Sampler



## Bulk/ Bag Sample

## Stabilized Ground water Groundwater At time of Drilling

Project: <b>MONTLAKE 1520</b>		Project Number: <b>31008</b>		Client: <b>HDR</b>	Boring No. <b>4.10.17</b>		
Address, City, State		Drilling Contractor: <b>HOLOCENE</b>		Drill Rig Type: <b>SONIC</b>			
Logged By: <b>M. WILLIAMS</b>		Date	Started: <b>10.28.17</b>	Bit Type:	Diameter: <b>4.25</b>		
Drill Crew: <b>HOLOCENE</b>			Completed: <b>10.28.17</b>	Hammer Type:			
USA Ticket Number:			Backfilled: <b>10.22.17</b>	Hammer Weight: <b>40.1b</b>	Hammer Drop:		
		Groundwater Depth: <b>NA</b>		Elevation: <b>/</b>	Total Depth of Boring: <b>30</b>		
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Graphic Log	Lithology	PID	Recovery %	Additional Test
1.42							
5		5.43		GREY SILTY SAND (F-M GRAINED) w/ MINOR CLAY, LOOSE, MOIST	0.2	100	
10		23 24 21		GREY SILTY SAND (F-M GRAINED) - MED DENSE, DRY.	0.6	100	
15		50 15		2 1/2' BGS ABRUPT CONTACT W/ GREY SILTY SANDY CLAY. DENSE. DRY.			
				GREY SILTY SAND (F-M GRAINED). DRY. VERY DENSE (TILL). MINOR GRVL (1/4 - 1/2") 5".	1.0	201.	
				SUBROUNDING - SUBANGULAR (TILL)			
20		50/4		SAT - TILL	1.1	60	
25		50/3		SAT - TILL	0.9	30	



- Standard Penetration Slit Spoon Sampler (SPT)
- California Sampler
- Shelby Tube
- CPP Sampler

Bulk/ Bag Sample

Boring Log: Sheet 1 of 2

- Stabilized Ground water
- Groundwater At time of Drilling

Project: MONILAKE / 520			Project Number: 31008	Client: HDR	Boring No. H.10.17
Depth (feet)	Sample Number	Blow Counts (blows/foot)	Lithology		
			<u>Soil Group Name:</u> modifier, color, moisture, density/consistency, grain size, other descriptors		
			<u>Rock Description:</u> modifier, color, hardness/degree of concentration, bedding and joint characteristics, solutions, void conditions.		
30		50/3	SAA	0.8	30
35					
40					
45					
50					



-  Standard Penetration Slit Spoon Sampler (SPT)
-  California Sampler
-  Shelby Tube
-  CPP Sampler

## Boring Log: Sheet 2 of 2

## Stabilized Ground water Groundwater At time of Drilling



## Bulk/ Bag Sample

## **APPENDIX B**

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## **ANALYTICAL REPORTS**





14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

October 30, 2017

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

Re: Analytical Data for Project 520 Montlake Phase II  
Laboratory Reference No. 1710-291

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 23, 2017.

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,

A handwritten signature in black ink, appearing to read "DBS".

David Baumeister  
Project Manager

Enclosures



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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: October 30, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

### Case Narrative

Samples were collected on October 22 and 23, 2017 and received by the laboratory on October 23, 2017. 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

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

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.



---

OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**NWTPH-HCID**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
Laboratory ID:	10-291-03					
Gasoline Range Organics	<b>ND</b>	22	NWTPH-HCID	10-24-17	10-24-17	
Diesel Range Organics	<b>ND</b>	56	NWTPH-HCID	10-24-17	10-24-17	
Lube Oil Range Organics	<b>ND</b>	110	NWTPH-HCID	10-24-17	10-24-17	
<i>Surrogate:</i>		<i>Percent Recovery</i>		<i>Control Limits</i>		
<i>o-Terphenyl</i>		108		50-150		



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

This report pertains to the samples analyzed in accordance with the chain of custody,  
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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**NWTPH-HCID**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1024S1					
Gasoline Range Organics	<b>ND</b>	20	NWTPH-HCID	10-24-17	10-24-17	
Diesel Range Organics	<b>ND</b>	50	NWTPH-HCID	10-24-17	10-24-17	
Lube Oil Range Organics	<b>ND</b>	100	NWTPH-HCID	10-24-17	10-24-17	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>o-Terphenyl</i>	103		50-150			



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**VOLATILES EPA 8260C**

page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
<b>Laboratory ID:</b>	10-291-03					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	10-25-17	10-25-17	
Chloromethane	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Bromomethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Chloroethane	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Acetone	ND	0.054	EPA 8260C	10-25-17	10-25-17	
Iodomethane	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
<b>Carbon Disulfide</b>	<b>0.0026</b>	0.0011	EPA 8260C	10-25-17	10-25-17	
Methylene Chloride	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Vinyl Acetate	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
2-Butanone	ND	0.011	EPA 8260C	10-25-17	10-25-17	
Bromochloromethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Chloroform	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Benzene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Trichloroethene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Dibromomethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	10-25-17	10-25-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Methyl Isobutyl Ketone	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
Toluene	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
Laboratory ID:	10-291-03					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
2-Hexanone	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Chlorobenzene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Ethylbenzene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
m,p-Xylene	ND	0.0022	EPA 8260C	10-25-17	10-25-17	
o-Xylene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Styrene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Bromoform	ND	0.0054	EPA 8260C	10-25-17	10-25-17	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-25-17	10-25-17	
Bromobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,1,2,2-Tetrachloroethane	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,2,3-Trichloropropane	ND	0.060	EPA 8260C	10-25-17	10-25-17	
n-Propylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
2-Chlorotoluene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
4-Chlorotoluene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,3,5-Trimethylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
tert-Butylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,2,4-Trimethylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
sec-Butylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,3-Dichlorobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
p-Isopropyltoluene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,4-Dichlorobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,2-Dichlorobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
n-Butylbenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,2-Dibromo-3-chloropropane	ND	0.30	EPA 8260C	10-25-17	10-25-17	
1,2,4-Trichlorobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
Hexachlorobutadiene	ND	0.30	EPA 8260C	10-25-17	10-25-17	
Naphthalene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
1,2,3-Trichlorobenzene	ND	0.060	EPA 8260C	10-25-17	10-25-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	114	75-131				
Toluene-d8	95	83-126				
4-Bromofluorobenzene	80	78-125				



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**VOLATILES by 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:	MB1025S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-25-17	10-25-17	
Chloromethane	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Bromomethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Chloroethane	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Acetone	ND	0.050	EPA 8260C	10-25-17	10-25-17	
Iodomethane	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Methylene Chloride	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
2-Butanone	ND	0.010	EPA 8260C	10-25-17	10-25-17	
Bromochloromethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Chloroform	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Benzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Trichloroethene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Dibromomethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	10-25-17	10-25-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Toluene	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1025S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
2-Hexanone	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Chlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Ethylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
m,p-Xylene	ND	0.0020	EPA 8260C	10-25-17	10-25-17	
o-Xylene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Styrene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Bromoform	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Bromobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-25-17	10-25-17	
Naphthalene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-25-17	10-25-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	75-131				
Toluene-d8	96	83-126				
4-Bromofluorobenzene	96	78-125				



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**VOLATILES by EPA 8260C**  
**SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	Spike Level		Percent Recovery		Recovery Limits	RPD RPD	RPD Limit	Flags					
		Recovery	Limits	RPD	Limit									
<b>SPIKE BLANKS</b>														
Laboratory ID:		SB1025S1												
		SB	SBD	SB	SBD	SB	SBD							
1,1-Dichloroethene	<b>0.0420</b>	<b>0.0466</b>	0.0500	0.0500		84	93	58-126	10 20					
Benzene	<b>0.0483</b>	<b>0.0517</b>	0.0500	0.0500		97	103	72-122	7 19					
Trichloroethene	<b>0.0485</b>	<b>0.0523</b>	0.0500	0.0500		97	105	75-120	8 20					
Toluene	<b>0.0430</b>	<b>0.0461</b>	0.0500	0.0500		86	92	78-123	7 19					
Chlorobenzene	<b>0.0461</b>	<b>0.0485</b>	0.0500	0.0500		92	97	75-120	5 18					
<i>Surrogate:</i>														
<i>Dibromofluoromethane</i>						105	103	75-131						
<i>Toluene-d8</i>						94	93	83-126						
<i>4-Bromofluorobenzene</i>						96	93	78-125						



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 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
<b>Laboratory ID:</b>	10-291-03					
n-Nitrosodimethylamine	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Pyridine	ND	0.37	EPA 8270D	10-25-17	10-26-17	
Phenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Aniline	ND	0.19	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethyl)ether	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Chlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,3-Dichlorobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,4-Dichlorobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Benzyl alcohol	ND	0.19	EPA 8270D	10-25-17	10-26-17	
1,2-Dichlorobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Methylphenol (o-Cresol)	ND	0.037	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroisopropyl)ether	ND	0.037	EPA 8270D	10-25-17	10-26-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.037	EPA 8270D	10-25-17	10-26-17	
n-Nitroso-di-n-propylamine	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Hexachloroethane	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Nitrobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Isophorone	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Nitrophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,4-Dimethylphenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethoxy)methane	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,4-Dichlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,2,4-Trichlorobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Naphthalene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
4-Chloroaniline	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Hexachlorobutadiene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
4-Chloro-3-methylphenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
1-Methylnaphthalene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Hexachlorocyclopentadiene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,4,6-Trichlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,3-Dichloroaniline	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,4,5-Trichlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Chloronaphthalene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2-Nitroaniline	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,4-Dinitrobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Dimethylphthalate	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,3-Dinitrobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,6-Dinitrotoluene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,2-Dinitrobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Acenaphthylene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
3-Nitroaniline	ND	0.037	EPA 8270D	10-25-17	10-26-17	



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 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
<b>Laboratory ID:</b>	<b>10-291-03</b>					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Acenaphthene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
4-Nitrophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,4-Dinitrotoluene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Dibenzofuran	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,3,5,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
2,3,4,6-Tetrachlorophenol	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Diethylphthalate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
4-Chlorophenyl-phenylether	ND	0.037	EPA 8270D	10-25-17	10-26-17	
4-Nitroaniline	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Fluorene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	10-25-17	10-26-17	
n-Nitrosodiphenylamine	ND	0.037	EPA 8270D	10-25-17	10-26-17	
1,2-Diphenylhydrazine	ND	0.037	EPA 8270D	10-25-17	10-26-17	
4-Bromophenyl-phenylether	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Hexachlorobenzene	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Pentachlorophenol	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Phenanthrene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Anthracene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Carbazole	ND	0.037	EPA 8270D	10-25-17	10-26-17	
Di-n-butylphthalate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Fluoranthene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Benzidine	ND	0.37	EPA 8270D	10-25-17	10-26-17	
Pyrene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Butylbenzylphthalate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Benzo[a]anthracene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Chrysene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Di-n-octylphthalate	ND	0.19	EPA 8270D	10-25-17	10-26-17	
Benzo[b]fluoranthene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo(j,k)fluoranthene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[a]pyrene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Indeno[1,2,3-cd]pyrene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Dibenz[a,h]anthracene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[g,h,i]perylene	ND	0.0074	EPA 8270D/SIM	10-25-17	10-26-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
2-Fluorophenol	31	18 - 113				
Phenol-d6	42	19 - 119				
Nitrobenzene-d5	32	19 - 119				
2-Fluorobiphenyl	52	33 - 109				
2,4,6-Tribromophenol	75	19 - 121				
Terphenyl-d14	71	30 - 116				



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**SEMIVOLATILES 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:	MB1025S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Pyridine	ND	0.33	EPA 8270D	10-25-17	10-26-17	
Phenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Aniline	ND	0.17	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Chlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Benzyl alcohol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-25-17	10-26-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Hexachloroethane	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Nitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Isophorone	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Nitrophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4-Chloroaniline	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Dimethylphthalate	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
3-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	



Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1025S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4-Nitrophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Dibenzofuran	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Diethylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Pentachlorophenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Carbazole	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Di-n-butylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzidine	ND	0.33	EPA 8270D	10-25-17	10-26-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	66	18 - 113				
Phenol-d6	74	19 - 119				
Nitrobenzene-d5	64	19 - 119				
2-Fluorobiphenyl	73	33 - 109				
2,4,6-Tribromophenol	87	19 - 121				
Terphenyl-d14	77	30 - 116				



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM  
 SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags						
<b>SPIKE BLANKS</b>																
Laboratory ID: SB1025S1																
	SB	SBD	SB	SBD	SB	SBD										
Phenol	<b>1.02</b>	<b>1.04</b>	1.33	1.33	77	78	39 - 109	2	36							
2-Chlorophenol	<b>0.995</b>	<b>1.01</b>	1.33	1.33	75	76	42 - 105	1	35							
1,4-Dichlorobenzene	<b>0.467</b>	<b>0.482</b>	0.667	0.667	70	72	31 - 103	3	37							
n-Nitroso-di-n-propylamine	<b>0.474</b>	<b>0.497</b>	0.667	0.667	71	75	36 - 104	5	34							
1,2,4-Trichlorobenzene	<b>0.491</b>	<b>0.509</b>	0.667	0.667	74	76	32 - 104	4	38							
4-Chloro-3-methylphenol	<b>1.14</b>	<b>1.11</b>	1.33	1.33	86	83	48 - 107	3	31							
Acenaphthene	<b>0.522</b>	<b>0.525</b>	0.667	0.667	78	79	38 - 102	1	33							
4-Nitrophenol	<b>1.26</b>	<b>1.25</b>	1.33	1.33	95	94	27 - 121	1	35							
2,4-Dinitrotoluene	<b>0.629</b>	<b>0.625</b>	0.667	0.667	94	94	36 - 103	1	34							
Pentachlorophenol	<b>1.37</b>	<b>1.39</b>	1.33	1.33	103	105	21 - 114	1	37							
Pyrene	<b>0.556</b>	<b>0.565</b>	0.667	0.667	83	85	46 - 108	2	31							
<i>Surrogate:</i>																
<i>2-Fluorophenol</i>					75	76	18 - 113									
<i>Phenol-d6</i>					77	78	19 - 119									
<i>Nitrobenzene-d5</i>					69	69	19 - 119									
<i>2-Fluorobiphenyl</i>					77	78	33 - 109									
<i>2,4,6-Tribromophenol</i>					93	90	19 - 121									
<i>Terphenyl-d14</i>					82	83	30 - 116									



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Date of Report: October 30, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**PCBs EPA 8082A**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-6-17-15'</b>					
Laboratory ID:	10-291-03					
Aroclor 1016	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1221	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1232	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1242	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1248	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1254	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Aroclor 1260	ND	0.056	EPA 8082A	10-26-17	10-26-17	
Surrogate: DCB	Percent Recovery 60		Control Limits 40-134			



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 Project: 520 Montlake Phase II

**PCBs EPA 8082A**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1026S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1221	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1232	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1242	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1248	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1254	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1260	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	66	40-134				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
<b>MATRIX SPIKES</b>								
Laboratory ID:	10-291-03							
	MS	MSD	MS	MSD	MS	MSD		
Aroclor 1260	0.344	0.341	0.500	0.500	ND	69 68	34-126	1 16
Surrogate:					67	66	40-134	
DCB								



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Date of Report: October 30, 2017  
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 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-291-03					
<b>Client ID:</b>	<b>H-6-17-15'</b>					
Arsenic	<b>ND</b>	11	6010C	10-25-17	10-25-17	
Barium	<b>47</b>	2.8	6010C	10-25-17	10-25-17	
Cadmium	<b>ND</b>	0.56	6010C	10-25-17	10-25-17	
Chromium	<b>33</b>	0.56	6010C	10-25-17	10-25-17	
Lead	<b>ND</b>	5.6	6010C	10-25-17	10-25-17	
Mercury	<b>ND</b>	0.28	7471B	10-25-17	10-25-17	
Selenium	<b>ND</b>	11	6010C	10-25-17	10-25-17	
Silver	<b>ND</b>	1.1	6010C	10-25-17	10-25-17	



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Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

**TOTAL METALS  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: MB1025SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



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Date of Report: October 30, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: MB1025S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



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 Laboratory Reference: 1710-291  
 Project: 520 Montlake Phase II

**TOTAL METALS  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-25-17  
 Date Analyzed: 10-25-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-276-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	<b>ND</b>	<b>ND</b>	NA	10	
Barium	<b>39.4</b>	<b>38.2</b>	3	2.5	
Cadmium	<b>ND</b>	<b>ND</b>	NA	0.50	
Chromium	<b>90.6</b>	<b>87.2</b>	4	0.50	
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	
Selenium	<b>ND</b>	<b>ND</b>	NA	10	
Silver	<b>ND</b>	<b>ND</b>	NA	1.0	



Date of Report: October 30, 2017  
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Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**DUPLICATE QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 10-286-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	<b>ND</b>	<b>ND</b>	NA	0.25	



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 Project: 520 Montlake Phase II

**TOTAL METALS**  
**EPA 6010C**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-25-17  
 Date Analyzed: 10-25-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-276-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	<b>96.1</b>	96	<b>96.3</b>	96	0	
Barium	100	<b>134</b>	94	<b>135</b>	96	1	
Cadmium	50.0	<b>48.5</b>	97	<b>48.5</b>	97	0	
Chromium	100	<b>174</b>	84	<b>179</b>	89	3	
Lead	250	<b>232</b>	93	<b>234</b>	93	1	
Selenium	100	<b>95.0</b>	95	<b>94.8</b>	95	0	
Silver	25.0	<b>20.4</b>	82	<b>20.2</b>	81	1	



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Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-25-17

Date Analyzed: 10-25-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-286-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	<b>0.581</b>	116	<b>0.587</b>	117	1	



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Date of Report: October 30, 2017  
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Laboratory Reference: 1710-291  
Project: 520 Montlake Phase II

**% MOISTURE**

Date Analyzed: 10-24-17

Client ID	Lab ID	% Moisture
H-6-17-15'	10-291-03	10



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### 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





## Chain of Custody

Analytical Laboratory Testing Services  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • [www.onsite-env.com](http://www.onsite-env.com)

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Phone: (425) 883-3881 • [www.onsite-env.com](http://www.onsite-env.com)

Company:

Project Number:

1

Project Name:

Project Manager

Sampled by:

Turnaround Request (in working days)							Laboratory Number: <b>10-291</b>
<p><input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)</p> <p><input type="checkbox"/> Same Day      <input type="checkbox"/> 1 Day</p> <p><input type="checkbox"/> 2 Days      <input type="checkbox"/> 3 Days</p> <p><input type="checkbox"/> (other) _____</p>							(Check One)
Lab ID	Sample Identification		Date Sampled	Time Sampled	Matrix	Number of Containers	
1	14.6.17	5'	10.22.17	1008	S	6	NWTPH-HCID X
2	14.6.17	10'	10.22.17				NWTPH-Gx/BTEX
3	14.6.17	15'	10.22.17				NWTPH-Gx HOLD X
4	14.6.17	20'	10.22.17				NWTPH-Dx (□ Acid / SG Clean-up) HOLD X
5	14.6.17	25'	10.22.17	1152			Volatiles 8260C X
6	14.6.17	30'	10.22.17	1218			Halogenated Volatiles 8260C
7	14.6.17	35'	10.22.17	1240			EDB EPA 8011 (Waters Only)
8	14.6.17	40'	10.22.17	1258			Semivolatiles 8270D/SIM (with low-level PAHs) X
9	14.6.17	45'	10.22.17	208			PAHs 8270D/SIM (low-level) X
10	14.6.17	50'	10.22.17	306			PCBs 8082A X
							Organochlorine Pesticides 8081B X
							Organophosphorus Pesticides 8270D/SIM X
							Chlorinated Acid Herbicides 8151A X
							Total RCRA Metals X
							Total MTCA Metals
							TCLP Metals
							HEM (oil and grease) 1664A
							MERCURY HOLD
							% Moisture
Relinquished	Signature		Company	Date	Time	Comments/Special Instructions	
Received	<i>Craig Glens</i>		INNOVEX	10/23/17	0940	email Glens	
Relinquished	<i>BB</i>		INNOVEX	10/23/17	0944		
Received						Data Package: Standard <input checked="" type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
Relinquished						Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDS) <input type="checkbox"/>	
Received						Reviewed/Date	
Reviewed/Date							



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October 31, 2017

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

Re: Analytical Data for Project 520-Montlake Phase II  
Laboratory Reference No. 1710-292

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 23, 2017.

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,

A handwritten signature in black ink, appearing to read "DBS".

David Baumeister  
Project Manager

Enclosures



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OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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: October 31, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

### Case Narrative

Samples were collected on October 21 and 22, 2017 and received by the laboratory on October 23, 2017. 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

Sodium Bisulfate preservation has been proven to increase the frequency of detection and the concentration of Acetone and 2-Butanone due in part to chemical reactions in the sample. If Acetone is a potential site contaminant, Sodium Bisulfate should not be used.

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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 Project: 520-Montlake Phase II

**NWTPH-HCID**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
Laboratory ID:	10-292-02					
Gasoline Range Organics	<b>ND</b>	25	NWTPH-HCID	10-24-17	10-24-17	
Diesel Range Organics	<b>ND</b>	63	NWTPH-HCID	10-24-17	10-24-17	
Lube Oil Range Organics	<b>ND</b>	130	NWTPH-HCID	10-24-17	10-24-17	

Surrogate: *Percent Recovery*    *Control Limits*  
*o-Terphenyl*                        111                        50-150

**Client ID:** **H-10-17-10'**  
 Laboratory ID: 10-292-07

Gasoline Range Organics	<b>ND</b>	25	NWTPH-HCID	10-24-17	10-24-17
Diesel Range Organics	<b>ND</b>	61	NWTPH-HCID	10-24-17	10-24-17
Lube Oil Range Organics	<b>ND</b>	120	NWTPH-HCID	10-24-17	10-24-17

Surrogate: *Percent Recovery*    *Control Limits*  
*o-Terphenyl*                        111                        50-150



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 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**NWTPH-HCID**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1024S2					
Gasoline Range Organics	<b>ND</b>	20	NWTPH-HCID	10-24-17	10-24-17	
Diesel Range Organics	<b>ND</b>	50	NWTPH-HCID	10-24-17	10-24-17	
Lube Oil Range Organics	<b>ND</b>	100	NWTPH-HCID	10-24-17	10-24-17	
Surrogate:	<i>Percent Recovery</i>		<i>Control Limits</i>			
<i>o-Terphenyl</i>	106		50-150			



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 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
<b>Laboratory ID:</b>	<b>10-292-02</b>					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	10-24-17	10-24-17	
Chloromethane	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Bromomethane	ND	0.0071	EPA 8260C	10-24-17	10-24-17	
Chloroethane	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Acetone	ND	0.056	EPA 8260C	10-24-17	10-24-17	
Iodomethane	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Carbon Disulfide	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Methylene Chloride	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Vinyl Acetate	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
2-Butanone	ND	0.011	EPA 8260C	10-24-17	10-24-17	
Bromochloromethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Chloroform	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Benzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Trichloroethene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Dibromomethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Toluene	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
Laboratory ID:	10-292-02					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
2-Hexanone	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Chlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Ethylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
m,p-Xylene	ND	0.0022	EPA 8260C	10-24-17	10-24-17	
o-Xylene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Styrene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Bromoform	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Isopropylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Bromobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
n-Propylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	10-24-17	10-24-17	
Naphthalene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-24-17	10-24-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	109	75-131				
Toluene-d8	101	83-126				
4-Bromofluorobenzene	93	78-125				



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-10-17-10'</b>					
<b>Laboratory ID:</b>	<b>10-292-07</b>					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Chloromethane	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Vinyl Chloride	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Bromomethane	ND	0.0052	EPA 8260C	10-24-17	10-24-17	
Chloroethane	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Acetone	ND	0.040	EPA 8260C	10-24-17	10-24-17	
Iodomethane	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Carbon Disulfide	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Methylene Chloride	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Methyl t-Butyl Ether	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Vinyl Acetate	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
2-Butanone	ND	0.0081	EPA 8260C	10-24-17	10-24-17	
Bromochloromethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Chloroform	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Benzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Trichloroethene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Dibromomethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Bromodichloromethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Methyl Isobutyl Ketone	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Toluene	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	



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 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-10-17-10'</b>					
Laboratory ID:	10-292-07					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Tetrachloroethene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
2-Hexanone	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Dibromochloromethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Chlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Ethylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
m,p-Xylene	ND	0.0016	EPA 8260C	10-24-17	10-24-17	
o-Xylene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Styrene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Bromoform	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Isopropylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Bromobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
n-Propylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
2-Chlorotoluene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
4-Chlorotoluene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,3,5-Trimethylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
tert-Butylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trimethylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
sec-Butylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
p-Isopropyltoluene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
n-Butylbenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Hexachlorobutadiene	ND	0.0040	EPA 8260C	10-24-17	10-24-17	
Naphthalene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	10-24-17	10-24-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	75-131				
Toluene-d8	102	83-126				
4-Bromofluorobenzene	107	78-125				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES by 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:	MB1024S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-24-17	10-24-17	
Chloromethane	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Bromomethane	ND	0.0064	EPA 8260C	10-24-17	10-24-17	
Chloroethane	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Acetone	ND	0.050	EPA 8260C	10-24-17	10-24-17	
Iodomethane	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Methylene Chloride	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
2-Butanone	ND	0.010	EPA 8260C	10-24-17	10-24-17	
Bromochloromethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Chloroform	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Benzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Trichloroethene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Dibromomethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Toluene	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1024S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
2-Hexanone	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Chlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Ethylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
m,p-Xylene	ND	0.0020	EPA 8260C	10-24-17	10-24-17	
o-Xylene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Styrene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Bromoform	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Bromobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-24-17	10-24-17	
Naphthalene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-24-17	10-24-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	116	75-131				
Toluene-d8	111	83-126				
4-Bromofluorobenzene	115	78-125				



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	Spike Level		Percent Recovery		Recovery Limits	RPD RPD	RPD Limit	Flags					
		SB	SBD	Recovery	Limits									
<b>SPIKE BLANKS</b>														
Laboratory ID: SB1024S1														
1,1-Dichloroethene	<b>0.0401</b>	<b>0.0376</b>	0.0500	0.0500	80	75	58-126	6	20					
Benzene	<b>0.0465</b>	<b>0.0450</b>	0.0500	0.0500	93	90	72-122	3	19					
Trichloroethene	<b>0.0447</b>	<b>0.0434</b>	0.0500	0.0500	89	87	75-120	3	20					
Toluene	<b>0.0490</b>	<b>0.0464</b>	0.0500	0.0500	98	93	78-123	5	19					
Chlorobenzene	<b>0.0468</b>	<b>0.0451</b>	0.0500	0.0500	94	90	75-120	4	18					
<i>Surrogate:</i>														
<i>Dibromofluoromethane</i>					98	100	75-131							
<i>Toluene-d8</i>					96	96	83-126							
<i>4-Bromofluorobenzene</i>					98	98	78-125							



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 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
<b>Laboratory ID:</b>	10-292-02					
n-Nitrosodimethylamine	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Pyridine	ND	0.42	EPA 8270D	10-25-17	10-26-17	
Phenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Aniline	ND	0.21	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethyl)ether	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Chlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,3-Dichlorobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,4-Dichlorobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Benzyl alcohol	ND	0.21	EPA 8270D	10-25-17	10-26-17	
1,2-Dichlorobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Methylphenol (o-Cresol)	ND	0.042	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroisopropyl)ether	ND	0.042	EPA 8270D	10-25-17	10-26-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.042	EPA 8270D	10-25-17	10-26-17	
n-Nitroso-di-n-propylamine	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Hexachloroethane	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Nitrobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Isophorone	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Nitrophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,4-Dimethylphenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethoxy)methane	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,4-Dichlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,2,4-Trichlorobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Naphthalene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
4-Chloroaniline	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Hexachlorobutadiene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
4-Chloro-3-methylphenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
1-Methylnaphthalene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Hexachlorocyclopentadiene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,4,6-Trichlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,3-Dichloroaniline	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,4,5-Trichlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Chloronaphthalene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2-Nitroaniline	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,4-Dinitrobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Dimethylphthalate	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,3-Dinitrobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,6-Dinitrotoluene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,2-Dinitrobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Acenaphthylene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
3-Nitroaniline	ND	0.042	EPA 8270D	10-25-17	10-26-17	



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 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
<b>Laboratory ID:</b>	<b>10-292-02</b>					
2,4-Dinitrophenol	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Acenaphthene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
4-Nitrophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,4-Dinitrotoluene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Dibenzofuran	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,3,5,6-Tetrachlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
2,3,4,6-Tetrachlorophenol	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Diethylphthalate	ND	0.21	EPA 8270D	10-25-17	10-26-17	
4-Chlorophenyl-phenylether	ND	0.042	EPA 8270D	10-25-17	10-26-17	
4-Nitroaniline	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Fluorene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
4,6-Dinitro-2-methylphenol	ND	0.21	EPA 8270D	10-25-17	10-26-17	
n-Nitrosodiphenylamine	ND	0.042	EPA 8270D	10-25-17	10-26-17	
1,2-Diphenylhydrazine	ND	0.059	EPA 8270D	10-25-17	10-26-17	U1
4-Bromophenyl-phenylether	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Hexachlorobenzene	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Pentachlorophenol	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Phenanthrene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Anthracene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Carbazole	ND	0.042	EPA 8270D	10-25-17	10-26-17	
Di-n-butylphthalate	ND	0.42	EPA 8270D	10-25-17	10-26-17	
Fluoranthene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Benzidine	ND	0.42	EPA 8270D	10-25-17	10-26-17	
Pyrene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Butylbenzylphthalate	ND	0.21	EPA 8270D	10-25-17	10-26-17	
bis-2-Ethylhexyladipate	ND	0.21	EPA 8270D	10-25-17	10-26-17	
3,3'-Dichlorobenzidine	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Benzo[a]anthracene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Chrysene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
bis(2-Ethylhexyl)phthalate	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Di-n-octylphthalate	ND	0.21	EPA 8270D	10-25-17	10-26-17	
Benzo[b]fluoranthene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo(j,k)fluoranthene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[a]pyrene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Indeno[1,2,3-cd]pyrene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Dibenz[a,h]anthracene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[g,h,i]perylene	ND	0.0083	EPA 8270D/SIM	10-25-17	10-26-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
2-Fluorophenol	49	18 - 113				
Phenol-d6	54	19 - 119				
Nitrobenzene-d5	44	19 - 119				
2-Fluorobiphenyl	63	33 - 109				
2,4,6-Tribromophenol	70	19 - 121				
Terphenyl-d14	63	30 - 116				



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 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-10-17-10'</b>					
<b>Laboratory ID:</b>	10-292-07					
n-Nitrosodimethylamine	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Pyridine	ND	0.41	EPA 8270D	10-25-17	10-26-17	
Phenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Aniline	ND	0.20	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethyl)ether	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Chlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,3-Dichlorobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,4-Dichlorobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Benzyl alcohol	ND	0.20	EPA 8270D	10-25-17	10-26-17	
1,2-Dichlorobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Methylphenol (o-Cresol)	ND	0.041	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroisopropyl)ether	ND	0.041	EPA 8270D	10-25-17	10-26-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.041	EPA 8270D	10-25-17	10-26-17	
n-Nitroso-di-n-propylamine	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Hexachloroethane	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Nitrobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Isophorone	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Nitrophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,4-Dimethylphenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethoxy)methane	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,4-Dichlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,2,4-Trichlorobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Naphthalene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
4-Chloroaniline	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Hexachlorobutadiene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
4-Chloro-3-methylphenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Methylnaphthalene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
1-Methylnaphthalene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Hexachlorocyclopentadiene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,4,6-Trichlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,3-Dichloroaniline	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,4,5-Trichlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Chloronaphthalene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2-Nitroaniline	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,4-Dinitrobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Dimethylphthalate	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,3-Dinitrobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,6-Dinitrotoluene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,2-Dinitrobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Acenaphthylene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
3-Nitroaniline	ND	0.041	EPA 8270D	10-25-17	10-26-17	



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-10-17-10'</b>					
<b>Laboratory ID:</b>	<b>10-292-07</b>					
2,4-Dinitrophenol	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Acenaphthene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
4-Nitrophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,4-Dinitrotoluene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Dibenzofuran	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,3,5,6-Tetrachlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
2,3,4,6-Tetrachlorophenol	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Diethylphthalate	ND	0.20	EPA 8270D	10-25-17	10-26-17	
4-Chlorophenyl-phenylether	ND	0.041	EPA 8270D	10-25-17	10-26-17	
4-Nitroaniline	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Fluorene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
4,6-Dinitro-2-methylphenol	ND	0.20	EPA 8270D	10-25-17	10-26-17	
n-Nitrosodiphenylamine	ND	0.041	EPA 8270D	10-25-17	10-26-17	
1,2-Diphenylhydrazine	ND	0.041	EPA 8270D	10-25-17	10-26-17	
4-Bromophenyl-phenylether	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Hexachlorobenzene	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Pentachlorophenol	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Phenanthrene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Anthracene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Carbazole	ND	0.041	EPA 8270D	10-25-17	10-26-17	
Di-n-butylphthalate	ND	0.41	EPA 8270D	10-25-17	10-26-17	
Fluoranthene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Benzidine	ND	0.41	EPA 8270D	10-25-17	10-26-17	
Pyrene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Butylbenzylphthalate	ND	0.20	EPA 8270D	10-25-17	10-26-17	
bis-2-Ethylhexyladipate	ND	0.20	EPA 8270D	10-25-17	10-26-17	
3,3'-Dichlorobenzidine	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Benzo[a]anthracene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Chrysene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
bis(2-Ethylhexyl)phthalate	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Di-n-octylphthalate	ND	0.20	EPA 8270D	10-25-17	10-26-17	
Benzo[b]fluoranthene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo(j,k)fluoranthene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[a]pyrene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Indeno[1,2,3-cd]pyrene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Dibenz[a,h]anthracene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[g,h,i]perylene	ND	0.0082	EPA 8270D/SIM	10-25-17	10-26-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
2-Fluorophenol	29	18 - 113				
Phenol-d6	36	19 - 119				
Nitrobenzene-d5	34	19 - 119				
2-Fluorobiphenyl	62	33 - 109				
2,4,6-Tribromophenol	70	19 - 121				
Terphenyl-d14	65	30 - 116				



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES 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:	MB1025S1					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Pyridine	ND	0.33	EPA 8270D	10-25-17	10-26-17	
Phenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Aniline	ND	0.17	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Chlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Benzyl alcohol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	10-25-17	10-26-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Hexachloroethane	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Nitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Isophorone	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Nitrophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4-Chloroaniline	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Dimethylphthalate	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
3-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	



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 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1025S1					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4-Nitrophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Dibenzofuran	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Diethylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Nitroaniline	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	10-25-17	10-26-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Pentachlorophenol	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Carbazole	ND	0.033	EPA 8270D	10-25-17	10-26-17	
Di-n-butylphthalate	ND	0.33	EPA 8270D	10-25-17	10-26-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzidine	ND	0.33	EPA 8270D	10-25-17	10-26-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	10-25-17	10-26-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	10-25-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	66	18 - 113				
Phenol-d6	74	19 - 119				
Nitrobenzene-d5	64	19 - 119				
2-Fluorobiphenyl	73	33 - 109				
2,4,6-Tribromophenol	87	19 - 121				
Terphenyl-d14	77	30 - 116				



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
**SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags						
<b>SPIKE BLANKS</b>																
Laboratory ID: SB1025S1																
	SB	SBD	SB	SBD	SB	SBD										
Phenol	<b>1.02</b>	<b>1.04</b>	1.33	1.33	77	78	39 - 109	2	36							
2-Chlorophenol	<b>0.995</b>	<b>1.01</b>	1.33	1.33	75	76	42 - 105	1	35							
1,4-Dichlorobenzene	<b>0.467</b>	<b>0.482</b>	0.667	0.667	70	72	31 - 103	3	37							
n-Nitroso-di-n-propylamine	<b>0.474</b>	<b>0.497</b>	0.667	0.667	71	75	36 - 104	5	34							
1,2,4-Trichlorobenzene	<b>0.491</b>	<b>0.509</b>	0.667	0.667	74	76	32 - 104	4	38							
4-Chloro-3-methylphenol	<b>1.14</b>	<b>1.11</b>	1.33	1.33	86	83	48 - 107	3	31							
Acenaphthene	<b>0.522</b>	<b>0.525</b>	0.667	0.667	78	79	38 - 102	1	33							
4-Nitrophenol	<b>1.26</b>	<b>1.25</b>	1.33	1.33	95	94	27 - 121	1	35							
2,4-Dinitrotoluene	<b>0.629</b>	<b>0.625</b>	0.667	0.667	94	94	36 - 103	1	34							
Pentachlorophenol	<b>1.37</b>	<b>1.39</b>	1.33	1.33	103	105	21 - 114	1	37							
Pyrene	<b>0.556</b>	<b>0.565</b>	0.667	0.667	83	85	46 - 108	2	31							
<i>Surrogate:</i>																
<i>2-Fluorophenol</i>					75	76	18 - 113									
<i>Phenol-d6</i>					77	78	19 - 119									
<i>Nitrobenzene-d5</i>					69	69	19 - 119									
<i>2-Fluorobiphenyl</i>					77	78	33 - 109									
<i>2,4,6-Tribromophenol</i>					93	90	19 - 121									
<i>Terphenyl-d14</i>					82	83	30 - 116									



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 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

PCBs EPA 8082A

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-9-17-15'</b>					
Laboratory ID:	10-292-02					
Aroclor 1016	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1221	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1232	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1242	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1248	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1254	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Aroclor 1260	ND	0.063	EPA 8082A	10-26-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	59	40-134				
<b>Client ID:</b>	<b>H-10-17-10'</b>					
Laboratory ID:	10-292-07					
Aroclor 1016	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1221	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1232	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1242	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1248	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1254	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Aroclor 1260	ND	0.061	EPA 8082A	10-26-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	64	40-134				



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 Project: 520-Montlake Phase II

**PCBs EPA 8082A**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1026S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1221	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1232	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1242	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1248	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1254	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Aroclor 1260	ND	0.050	EPA 8082A	10-26-17	10-26-17	
Surrogate:	Percent Recovery	Control Limits				
DCB	66	40-134				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
<b>MATRIX SPIKES</b>								
Laboratory ID:	10-291-03							
	MS	MSD	MS	MSD	MS	MSD		
Aroclor 1260	0.344	0.341	0.500	0.500	ND	69 68	34-126	1 16
Surrogate:					67	66	40-134	
DCB								



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 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-292-02					
<b>Client ID:</b>	<b>H-9-17-15'</b>					
Arsenic	ND	13	6010C	10-25-17	10-25-17	
Barium	63	3.1	6010C	10-25-17	10-25-17	
Cadmium	ND	0.63	6010C	10-25-17	10-25-17	
Chromium	37	0.63	6010C	10-25-17	10-25-17	
Lead	ND	6.3	6010C	10-25-17	10-25-17	
Mercury	ND	0.31	7471B	10-25-17	10-25-17	
Selenium	ND	13	6010C	10-25-17	10-25-17	
Silver	ND	1.3	6010C	10-25-17	10-25-17	
Lab ID:	10-292-07					
<b>Client ID:</b>	<b>H-10-17-10'</b>					
Arsenic	ND	12	6010C	10-25-17	10-25-17	
Barium	35	3.1	6010C	10-25-17	10-25-17	
Cadmium	ND	0.61	6010C	10-25-17	10-25-17	
Chromium	27	0.61	6010C	10-25-17	10-25-17	
Lead	ND	6.1	6010C	10-25-17	10-25-17	
Mercury	ND	0.31	7471B	10-25-17	10-25-17	
Selenium	ND	12	6010C	10-25-17	10-25-17	
Silver	ND	1.2	6010C	10-25-17	10-25-17	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: October 31, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

**TOTAL METALS  
EPA 6010C  
METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: MB1025SM1

Analyte	Method	Result	PQL
Arsenic	6010C	ND	10
Barium	6010C	ND	2.5
Cadmium	6010C	ND	0.50
Chromium	6010C	ND	0.50
Lead	6010C	ND	5.0
Selenium	6010C	ND	10
Silver	6010C	ND	1.0



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Date of Report: October 31, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: MB1025S2

Analyte	Method	Result	PQL
Mercury	7471B	ND	0.25



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**TOTAL METALS  
EPA 6010C  
DUPLICATE QUALITY CONTROL**

Date Extracted: 10-25-17  
 Date Analyzed: 10-25-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-276-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	<b>ND</b>	<b>ND</b>	NA	10	
Barium	<b>39.4</b>	<b>38.2</b>	3	2.5	
Cadmium	<b>ND</b>	<b>ND</b>	NA	0.50	
Chromium	<b>90.6</b>	<b>87.2</b>	4	0.50	
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	
Selenium	<b>ND</b>	<b>ND</b>	NA	10	
Silver	<b>ND</b>	<b>ND</b>	NA	1.0	



Date of Report: October 31, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**DUPLICATE QUALITY CONTROL**

Date Extracted: 10-25-17  
Date Analyzed: 10-25-17

Matrix: Soil  
Units: mg/kg (ppm)

Lab ID: 10-286-01

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Mercury	<b>ND</b>	<b>ND</b>	NA	0.25	



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Date of Report: October 31, 2017  
 Samples Submitted: October 23, 2017  
 Laboratory Reference: 1710-292  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-25-17  
 Date Analyzed: 10-25-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-276-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	<b>96.1</b>	96	<b>96.3</b>	96	0	
Barium	100	<b>134</b>	94	<b>135</b>	96	1	
Cadmium	50.0	<b>48.5</b>	97	<b>48.5</b>	97	0	
Chromium	100	<b>174</b>	84	<b>179</b>	89	3	
Lead	250	<b>232</b>	93	<b>234</b>	93	1	
Selenium	100	<b>95.0</b>	95	<b>94.8</b>	95	0	
Silver	25.0	<b>20.4</b>	82	<b>20.2</b>	81	1	



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Date of Report: October 31, 2017  
Samples Submitted: October 23, 2017  
Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

**TOTAL MERCURY**  
**EPA 7471B**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-25-17

Date Analyzed: 10-25-17

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 10-286-01

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Mercury	0.500	<b>0.581</b>	116	<b>0.587</b>	117	1	



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Date of Report: October 31, 2017  
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Laboratory Reference: 1710-292  
Project: 520-Montlake Phase II

**% MOISTURE**

Date Analyzed: 10-24-17

Client ID	Lab ID	% Moisture
H-9-17-15'	10-292-02	20
H-10-17-10'	10-292-07	18



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### 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







**OnSite  
Environmental Inc.**  
Avalanche Cleaning Services

14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • [www.onsite-env.com](http://www.onsite-env.com)

company.

Project Number:

Project Name: \_\_\_\_\_

520 WONDERS OF LIFE

Project manager:  
GLEN HUNMAN

Sampled by:  
M. Williams

## **Chain of Custody**

Laboratory Number:

10-292

Page 2 of 2

Turnaround Request (in working days)					Laboratory Number: <b>10-292</b>
(Check One)					
Company:	INNOVEX				
Project Number:					
Project Name:	520/WENatchee PTH				
Project Manager:	M. WILLIAMS				
Sampled by:	GLEN HORNMAN				
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	4-10-17-201	10.22.17	4:23	5	6
					NWTPH-HCID
					NWTPH-Gx/BTEX
					NWTPH-Gx
					NWTPH-Dx ( <input type="checkbox"/> 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
					<i>X HOLD</i>
					% Moisture
Signature	Company	Date	Time	Comments/Special Instructions	
Relinquished	<i>Glen Hornman</i>			e-mail Glen	
Received	<i>CSR</i>	10/23/17	9:40		
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date					
Data Package:	Standard <input checked="" type="checkbox"/>	Level III <input type="checkbox"/>	Level IV <input type="checkbox"/>		
Chromatograms with final report	<input type="checkbox"/>	Electronic Data Deliverables (EDDS) <input checked="" type="checkbox"/>			



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November 6, 2017

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

Re: Analytical Data for Project 520-Montlake Phase II  
Laboratory Reference No. 1710-367

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 2017.

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,

A handwritten signature in black ink, appearing to read "DBS".

David Baumeister  
Project Manager

Enclosures



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Date of Report: November 6, 2017  
Samples Submitted: October 27, 2017  
Laboratory Reference: 1710-367  
Project: 520-Montlake Phase II

### Case Narrative

Samples were collected on October 24 and 25, 2017 and received by the laboratory on October 27, 2017. 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.



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Date of Report: November 6, 2017  
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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**NWTPH-HCID**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
<b>Laboratory ID:</b>	10-367-01					
Gasoline Range Organics	<b>ND</b>	23	NWTPH-HCID	10-27-17	10-27-17	
Diesel Range Organics	<b>ND</b>	57	NWTPH-HCID	10-27-17	10-27-17	
Lube Oil Range Organics	<b>ND</b>	120	NWTPH-HCID	10-27-17	10-27-17	
<i>Surrogate:</i>		<i>Percent Recovery</i>		<i>Control Limits</i>		
<i>o-Terphenyl</i>		101		50-150		



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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**NWTPH-HCID**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1027S1					
Gasoline Range Organics	<b>ND</b>	20	NWTPH-HCID	10-27-17	10-27-17	
Diesel Range Organics	<b>ND</b>	50	NWTPH-HCID	10-27-17	10-27-17	
Lube Oil Range Organics	<b>ND</b>	100	NWTPH-HCID	10-27-17	10-27-17	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
<i>o-Terphenyl</i>		105	50-150			



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Date of Report: November 6, 2017  
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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
<b>Laboratory ID:</b>	<b>10-367-01</b>					
Dichlorodifluoromethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Chloromethane	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Vinyl Chloride	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Bromomethane	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Chloroethane	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Trichlorofluoromethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Acetone	ND	0.0590	EPA 8260C	10-27-17	10-27-17	
Iodomethane	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Carbon Disulfide	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Methylene Chloride	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Methyl t-Butyl Ether	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Vinyl Acetate	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
2,2-Dichloropropane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
2-Butanone	ND	0.0120	EPA 8260C	10-27-17	10-27-17	
Bromochloromethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Chloroform	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1,1-Trichloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Carbon Tetrachloride	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloropropene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Benzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Trichloroethene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloropropane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Dibromomethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Bromodichloromethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
(cis) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Methyl Isobutyl Ketone	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Toluene	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
(trans) 1,3-Dichloropropene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
Laboratory ID:	10-367-01					
1,1,2-Trichloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,3-Dichloropropane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
2-Hexanone	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Dibromochloromethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromoethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Chlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Ethylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
m,p-Xylene	ND	0.0024	EPA 8260C	10-27-17	10-27-17	
o-Xylene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Styrene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Bromoform	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Isopropylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Bromobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,1,2,2-Tetrachloroethane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
n-Propylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
2-Chlorotoluene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
4-Chlorotoluene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,3,5-Trimethylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
tert-Butylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trimethylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
sec-Butylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,3-Dichlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
p-Isopropyltoluene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,4-Dichlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2-Dichlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
n-Butylbenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trichlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
Hexachlorobutadiene	ND	0.0059	EPA 8260C	10-27-17	10-27-17	
Naphthalene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichlorobenzene	ND	0.0012	EPA 8260C	10-27-17	10-27-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
Dibromofluoromethane	111	75-131				
Toluene-d8	109	83-126				
4-Bromofluorobenzene	111	78-125				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**VOLATILES by 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:	MB1027S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chloromethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromomethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Chloroethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Acetone	ND	0.050	EPA 8260C	10-27-17	10-27-17	
Iodomethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methylene Chloride	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Butanone	ND	0.010	EPA 8260C	10-27-17	10-27-17	
Bromochloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chloroform	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Benzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Trichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Dibromomethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Toluene	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Hexanone	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Ethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
m,p-Xylene	ND	0.0020	EPA 8260C	10-27-17	10-27-17	
o-Xylene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Styrene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromoform	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Naphthalene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	75-131				
Toluene-d8	109	83-126				
4-Bromofluorobenzene	108	78-125				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	Spike Level		Percent Recovery		Recovery Limits	RPD RPD	RPD Limit	Flags					
		Recovery	Limits	RPD	Limit									
<b>SPIKE BLANKS</b>														
Laboratory ID:		SB1027S1												
		SB	SBD	SB	SBD	SB	SBD							
1,1-Dichloroethene	<b>0.0518</b>	<b>0.0485</b>	0.0500	0.0500		104	97	58-126	7 20					
Benzene	<b>0.0538</b>	<b>0.0517</b>	0.0500	0.0500		108	103	72-122	4 19					
Trichloroethene	<b>0.0472</b>	<b>0.0449</b>	0.0500	0.0500		94	90	75-120	5 20					
Toluene	<b>0.0497</b>	<b>0.0481</b>	0.0500	0.0500		99	96	78-123	3 19					
Chlorobenzene	<b>0.0482</b>	<b>0.0468</b>	0.0500	0.0500		96	94	75-120	3 18					
<i>Surrogate:</i>														
<i>Dibromofluoromethane</i>						100	98	75-131						
<i>Toluene-d8</i>						100	97	83-126						
<i>4-Bromofluorobenzene</i>						101	100	78-125						



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 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
 page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
Laboratory ID:	10-367-01					
n-Nitrosodimethylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Pyridine	ND	0.38	EPA 8270D	11-2-17	11-2-17	
Phenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Aniline	ND	0.19	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Chlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,3-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,4-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Benzyl alcohol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
1,2-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270D	11-2-17	11-2-17	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Hexachloroethane	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Nitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Isophorone	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Nitrophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dimethylphenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Naphthalene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
4-Chloroaniline	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Hexachlorobutadiene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
1-Methylnaphthalene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Hexachlorocyclopentadiene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3-Dichloroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Chloronaphthalene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,4-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Dimethylphthalate	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,3-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,6-Dinitrotoluene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Acenaphthylene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
3-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
**page 2 of 2**

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
Laboratory ID:	10-367-01					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Acenaphthene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
4-Nitrophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dinitrotoluene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Dibenzofuran	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Diethylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Fluorene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Hexachlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Pentachlorophenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Phenanthrene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Anthracene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Carbazole	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Di-n-butylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Fluoranthene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Benzidine	ND	0.38	EPA 8270D	11-2-17	11-2-17	
Pyrene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Butylbenzylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Benzo[a]anthracene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Chrysene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Di-n-octylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Benzo[b]fluoranthene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo(j,k)fluoranthene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[a]pyrene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Indeno[1,2,3-cd]pyrene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Dibenz[a,h]anthracene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[g,h,i]perylene	ND	0.0077	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
2-Fluorophenol	63	18 - 113				
Phenol-d6	68	19 - 119				
Nitrobenzene-d5	63	19 - 119				
2-Fluorobiphenyl	73	33 - 109				
2,4,6-Tribromophenol	73	19 - 121				
Terphenyl-d14	79	30 - 116				



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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**SEMIVOLATILES 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:	MB1102S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Pyridine	ND	0.33	EPA 8270D	11-2-17	11-2-17	
Phenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Aniline	ND	0.17	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Chlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Benzyl alcohol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	11-2-17	11-2-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Hexachloroethane	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Nitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Isophorone	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Nitrophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4-Chloroaniline	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Dimethylphthalate	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
3-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	



Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**SEMICVOLATILES EPA 8270D/SIM  
METHOD BLANK QUALITY CONTROL**  
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4-Nitrophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Dibenzofuran	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Diethylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Pentachlorophenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Carbazole	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Di-n-butylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzidine	ND	0.33	EPA 8270D	11-2-17	11-2-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	82	18 - 113				
Phenol-d6	85	19 - 119				
Nitrobenzene-d5	78	19 - 119				
2-Fluorobiphenyl	85	33 - 109				
2,4,6-Tribromophenol	88	19 - 121				
Terphenyl-d14	91	30 - 116				



Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM  
 MS/MSD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags		
<b>MATRIX SPIKES</b>											
Laboratory ID: 10-377-01											
	MS	MSD	MS	MSD	MS	MSD					
Phenol	<b>0.707</b>	<b>0.759</b>	1.33	1.33	ND	53	57	25 - 103	7	36	
2-Chlorophenol	<b>0.646</b>	<b>0.723</b>	1.33	1.33	ND	49	54	21 - 109	11	38	
1,4-Dichlorobenzene	<b>0.233</b>	<b>0.286</b>	0.667	0.667	ND	35	43	20 - 110	20	40	
n-Nitroso-di-n-propylamine	<b>0.351</b>	<b>0.402</b>	0.667	0.667	ND	53	60	20 - 111	14	38	
1,2,4-Trichlorobenzene	<b>0.324</b>	<b>0.366</b>	0.667	0.667	ND	49	55	20 - 107	12	40	
4-Chloro-3-methylphenol	<b>0.820</b>	<b>0.835</b>	1.33	1.33	ND	62	63	30 - 111	2	29	
Acenaphthene	<b>0.385</b>	<b>0.408</b>	0.667	0.667	ND	58	61	27 - 109	6	30	
4-Nitrophenol	<b>0.722</b>	<b>0.702</b>	1.33	1.33	ND	54	53	20 - 119	3	29	
2,4-Dinitrotoluene	<b>0.379</b>	<b>0.382</b>	0.667	0.667	ND	57	57	32 - 103	1	30	
Pentachlorophenol	<b>1.03</b>	<b>0.986</b>	1.33	1.33	ND	77	74	20 - 127	4	31	
Pyrene	<b>0.437</b>	<b>0.433</b>	0.667	0.667	ND	66	65	37 - 111	1	28	
<i>Surrogate:</i>											
<i>2-Fluorophenol</i>						42	47	18 - 113			
<i>Phenol-d6</i>						52	56	19 - 119			
<i>Nitrobenzene-d5</i>						49	51	19 - 119			
<i>2-Fluorobiphenyl</i>						64	64	33 - 109			
<i>2,4,6-Tribromophenol</i>						65	63	19 - 121			
<i>Terphenyl-d14</i>						65	64	30 - 116			



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**PCBs EPA 8082A**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-8-17-5'</b>					
Laboratory ID:	10-367-01					
Aroclor 1016	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1221	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1232	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1242	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1248	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1254	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
Aroclor 1260	<b>ND</b>	0.057	EPA 8082A	10-30-17	10-30-17	
<i>Surrogate:</i>		<i>Percent Recovery</i>	<i>Control Limits</i>			
DCB		78	40-134			



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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**PCBs EPA 8082A**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1030S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1221	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1232	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1242	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1248	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1254	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1260	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Surrogate:	Percent Recovery		Control Limits			
DCB	73		40-134			

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
<b>MATRIX SPIKES</b>								
Laboratory ID:	10-372-01							
	MS	MSD	MS	MSD	MS	MSD		
Aroclor 1260	0.407	0.419	0.500	0.500	ND	81 84	34-126	3 16
Surrogate:								
DCB	75 80 40-134							



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Prepared	Date	Date Analyzed	Flags
Lab ID:	10-367-01						
<b>Client ID:</b>	<b>H-8-17-5'</b>						
Arsenic	<b>ND</b>	11	6010C	10-30-17	10-30-17		
Barium	<b>69</b>	2.9	6010C	10-30-17	10-30-17		
Cadmium	<b>ND</b>	0.57	6010C	10-30-17	10-30-17		
Chromium	<b>35</b>	0.57	6010C	10-30-17	10-30-17		
Lead	<b>ND</b>	5.7	6010C	10-30-17	10-30-17		
Mercury	<b>ND</b>	0.29	7471B	10-31-17	10-31-17		
Selenium	<b>ND</b>	11	6010C	10-30-17	10-30-17		
Silver	<b>ND</b>	1.1	6010C	10-30-17	10-30-17		



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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: MB1030SM1&MB1031S1

Analyte	Method	Result	PQL
Arsenic	6010C	<b>ND</b>	10
Barium	6010C	<b>ND</b>	2.5
Cadmium	6010C	<b>ND</b>	0.50
Chromium	6010C	<b>ND</b>	0.50
Lead	6010C	<b>ND</b>	5.0
Mercury	7471B	<b>ND</b>	0.25
Selenium	6010C	<b>ND</b>	10
Silver	6010C	<b>ND</b>	1.0



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 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**DUPLICATE QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-364-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	<b>ND</b>	<b>ND</b>	NA	10	
Barium	<b>41.2</b>	<b>42.1</b>	2	2.5	
Cadmium	<b>ND</b>	<b>ND</b>	NA	0.50	
Chromium	<b>30.3</b>	<b>30.1</b>	1	0.50	
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	
Mercury	<b>ND</b>	<b>ND</b>	NA	0.25	
Selenium	<b>ND</b>	<b>ND</b>	NA	10	
Silver	<b>ND</b>	<b>ND</b>	NA	1.0	



Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-367  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-364-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	<b>91.6</b>	92	<b>92.2</b>	92	1	
Barium	100	<b>136</b>	95	<b>135</b>	94	0	
Cadmium	50.0	<b>47.1</b>	94	<b>46.7</b>	93	1	
Chromium	100	<b>118</b>	87	<b>116</b>	86	1	
Lead	250	<b>222</b>	89	<b>217</b>	87	2	
Mercury	0.500	<b>0.506</b>	101	<b>0.503</b>	101	1	
Selenium	100	<b>95.9</b>	96	<b>94.7</b>	95	1	
Silver	25.0	<b>20.5</b>	82	<b>20.2</b>	81	2	



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Samples Submitted: October 27, 2017  
Laboratory Reference: 1710-367  
Project: 520-Montlake Phase II

**% MOISTURE**

Date Analyzed: 10-27-17

Client ID	Lab ID	% Moisture
H-8-17-5'	10-367-01	13



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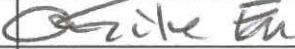
### Data Qualifiers and Abbreviations

- 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



# Chain of Custody

Page 1 of 1

Turnaround Request (in working days)				Laboratory Number:																			
				10-367																			
(Check One)																							
<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> _____ (other)																							
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers	NW/TPH-HC/ID	NW/TPH-Gx/BTEX	NW/TPH-Gx (HOLD)	NW/TPH-Dx (□ Acid / SG Clean-up) (HOLD)	Volatile 8260G	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	POBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	TCLP Metals	HEM (oil and grease) 1664A	MERCURY 7471B	% Moisture
1	H-8-17 S1	10/24/17	1033	S	6	X		X X X				X	X				X					X	
2	H-8-17 101		1059		1																		
3	H-8-17 1S1		1132		1																		
4	H-8-17 201		1156		1																		
5	H-8-17 2S1	10/25/17	1232																				
6	H-8-17 301		1248																				
7	H-8-17 3S1		168																				
8	H-8-17 401		208																				
9	H-8-17 4S1		259																				
10	H-8-17 501		338		1																		
Signature				Company		Date	Time	Comments/Special Instructions															
Relinquished			INNOVEX		10/27/17	9:20																	
Received			OnSite Env		10/27/17	9:20																	
Relinquished																							
Received																							
Relinquished																							
Received							Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>																
Reviewed/Date			Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input checked="" type="checkbox"/>																		



14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 • (425) 883-3881

November 6, 2017

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

Re: Analytical Data for Project 520-Montlake Phase II  
Laboratory Reference No. 1710-368

Dear Glenn:

Enclosed are the analytical results and associated quality control data for samples submitted on October 27, 2017.

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,

A handwritten signature in black ink, appearing to read "DBS".

David Baumeister  
Project Manager

Enclosures



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Date of Report: November 6, 2017  
Samples Submitted: October 27, 2017  
Laboratory Reference: 1710-368  
Project: 520-Montlake Phase II

### Case Narrative

Samples were collected on October 23 and 24, 2017 and received by the laboratory on October 27, 2017. 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.



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 Project: 520-Montlake Phase II

**NWTPH-HCID**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
Laboratory ID:	10-368-02					
Gasoline Range Organics	<b>ND</b>	23	NWTPH-HCID	10-27-17	10-27-17	
Diesel Range Organics	<b>ND</b>	56	NWTPH-HCID	10-27-17	10-27-17	
Lube Oil Range Organics	<b>ND</b>	110	NWTPH-HCID	10-27-17	10-27-17	

Surrogate: *Percent Recovery*    *Control Limits*  
*o-Terphenyl*                        100                        50-150

<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
Gasoline Range Organics	<b>ND</b>	22	NWTPH-HCID	10-27-17	10-27-17	
Diesel Range Organics	<b>ND</b>	55	NWTPH-HCID	10-27-17	10-27-17	
Lube Oil Range Organics	<b>ND</b>	110	NWTPH-HCID	10-27-17	10-27-17	

Surrogate: *Percent Recovery*    *Control Limits*  
*o-Terphenyl*                        99                        50-150



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 Project: 520-Montlake Phase II

**NWTPH-HCID**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1027S1					
Gasoline Range Organics	<b>ND</b>	20	NWTPH-HCID	10-27-17	10-27-17	
Diesel Range Organics	<b>ND</b>	50	NWTPH-HCID	10-27-17	10-27-17	
Lube Oil Range Organics	<b>ND</b>	100	NWTPH-HCID	10-27-17	10-27-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
<b>Laboratory ID:</b>	<b>10-368-02</b>					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Chloromethane	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Vinyl Chloride	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Bromomethane	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Chloroethane	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Acetone	ND	0.047	EPA 8260C	10-27-17	10-27-17	
Iodomethane	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Carbon Disulfide	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Methylene Chloride	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Methyl t-Butyl Ether	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Vinyl Acetate	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
2-Butanone	ND	0.0094	EPA 8260C	10-27-17	10-27-17	
Bromochloromethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Chloroform	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Benzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Trichloroethene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Dibromomethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Bromodichloromethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Methyl Isobutyl Ketone	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Toluene	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
Laboratory ID:	10-368-02					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Tetrachloroethene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
2-Hexanone	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Dibromochloromethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Chlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Ethylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
m,p-Xylene	ND	0.0019	EPA 8260C	10-27-17	10-27-17	
o-Xylene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Styrene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Bromoform	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Isopropylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Bromobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
n-Propylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
2-Chlorotoluene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
4-Chlorotoluene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,3,5-Trimethylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
tert-Butylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trimethylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
sec-Butylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
p-Isopropyltoluene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
n-Butylbenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	10-27-17	10-27-17	
Naphthalene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	10-27-17	10-27-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
Dibromofluoromethane	110	75-131				
Toluene-d8	108	83-126				
4-Bromofluorobenzene	112	78-125				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 1 of 2

Matrix: Soil  
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Chloromethane	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Bromomethane	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
Chloroethane	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>Acetone</b>	<b>0.078</b>	0.053	EPA 8260C	10-27-17	10-27-17	
Iodomethane	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
<b>Carbon Disulfide</b>	<b>0.0054</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
Methylene Chloride	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Vinyl Acetate	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>2-Butanone</b>	<b>0.014</b>	0.011	EPA 8260C	10-27-17	10-27-17	
Bromochloromethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Chloroform	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>Benzene</b>	<b>0.0096</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Trichloroethene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Dibromomethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Methyl Isobutyl Ketone	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
Toluene	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES EPA 8260C**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
2-Hexanone	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Chlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>Ethylbenzene</b>	<b>0.0022</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>m,p-Xylene</b>	<b>0.0024</b>	0.0021	EPA 8260C	10-27-17	10-27-17	
o-Xylene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Styrene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Bromoform	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
<b>Isopropylbenzene</b>	<b>0.0012</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
Bromobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>n-Propylbenzene</b>	<b>0.0035</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
tert-Butylbenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>1,2,4-Trimethylbenzene</b>	<b>0.0015</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
sec-Butylbenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
n-Butylbenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
Hexachlorobutadiene	ND	0.0053	EPA 8260C	10-27-17	10-27-17	
<b>Naphthalene</b>	<b>0.0027</b>	0.0011	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-27-17	10-27-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
Dibromofluoromethane	121	75-131				
Toluene-d8	121	83-126				
4-Bromofluorobenzene	123	78-125				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES by 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:	MB1027S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chloromethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromomethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Chloroethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Acetone	ND	0.050	EPA 8260C	10-27-17	10-27-17	
Iodomethane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Carbon Disulfide	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methylene Chloride	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Vinyl Acetate	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Butanone	ND	0.010	EPA 8260C	10-27-17	10-27-17	
Bromochloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chloroform	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Benzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Trichloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Dibromomethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Toluene	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**METHOD BLANK QUALITY CONTROL**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1027S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Hexanone	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Chlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Ethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
m,p-Xylene	ND	0.0020	EPA 8260C	10-27-17	10-27-17	
o-Xylene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Styrene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromoform	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Isopropylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Bromobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
n-Propylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
tert-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
sec-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
n-Butylbenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-27-17	10-27-17	
Naphthalene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-27-17	10-27-17	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	108	75-131				
Toluene-d8	109	83-126				
4-Bromofluorobenzene	108	78-125				



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**VOLATILES by EPA 8260C**  
**SB/SBD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/kg

Analyte	Result	Spike Level		Percent Recovery		Recovery Limits	RPD RPD	RPD Limit	Flags					
		Recovery	Limits	RPD	Limit									
<b>SPIKE BLANKS</b>														
Laboratory ID: SB1027S1														
		SB	SBD	SB	SBD	SB	SBD							
1,1-Dichloroethene	<b>0.0518</b>	<b>0.0485</b>	0.0500	0.0500		104	97	58-126	7 20					
Benzene	<b>0.0538</b>	<b>0.0517</b>	0.0500	0.0500		108	103	72-122	4 19					
Trichloroethene	<b>0.0472</b>	<b>0.0449</b>	0.0500	0.0500		94	90	75-120	5 20					
Toluene	<b>0.0497</b>	<b>0.0481</b>	0.0500	0.0500		99	96	78-123	3 19					
Chlorobenzene	<b>0.0482</b>	<b>0.0468</b>	0.0500	0.0500		96	94	75-120	3 18					
<i>Surrogate:</i>														
<i>Dibromofluoromethane</i>						100	98	75-131						
<i>Toluene-d8</i>						100	97	83-126						
<i>4-Bromofluorobenzene</i>						101	100	78-125						



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 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
 page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
<b>Laboratory ID:</b>	10-368-02					
n-Nitrosodimethylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Pyridine	ND	0.38	EPA 8270D	11-2-17	11-2-17	
Phenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Aniline	ND	0.19	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethyl)ether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Chlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,3-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,4-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Benzyl alcohol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
1,2-Dichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Methylphenol (o-Cresol)	ND	0.038	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroisopropyl)ether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.038	EPA 8270D	11-2-17	11-2-17	
n-Nitroso-di-n-propylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Hexachloroethane	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Nitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Isophorone	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Nitrophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dimethylphenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethoxy)methane	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2,4-Trichlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Naphthalene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
4-Chloroaniline	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Hexachlorobutadiene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Chloro-3-methylphenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Methylnaphthalene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
1-Methylnaphthalene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Hexachlorocyclopentadiene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4,6-Trichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3-Dichloroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4,5-Trichlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Chloronaphthalene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,4-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Dimethylphthalate	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,3-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,6-Dinitrotoluene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2-Dinitrobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Acenaphthylene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
3-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	



OnSite Environmental, Inc. 14648 NE 95<sup>th</sup> Street, Redmond, WA 98052 (425) 883-3881

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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
Laboratory ID:	10-368-02					
2,4-Dinitrophenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Acenaphthene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
4-Nitrophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,4-Dinitrotoluene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Dibenzofuran	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3,5,6-Tetrachlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
2,3,4,6-Tetrachlorophenol	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Diethylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
4-Chlorophenyl-phenylether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Nitroaniline	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Fluorene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
4,6-Dinitro-2-methylphenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
n-Nitrosodiphenylamine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
1,2-Diphenylhydrazine	ND	0.038	EPA 8270D	11-2-17	11-2-17	
4-Bromophenyl-phenylether	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Hexachlorobenzene	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Pentachlorophenol	ND	0.19	EPA 8270D	11-2-17	11-2-17	
<b>Phenanthrene</b>	<b>0.019</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Anthracene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Carbazole	ND	0.038	EPA 8270D	11-2-17	11-2-17	
Di-n-butylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
<b>Fluoranthene</b>	<b>0.027</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Benzidine	ND	0.38	EPA 8270D	11-2-17	11-2-17	
<b>Pyrene</b>	<b>0.041</b>	0.038	EPA 8270D	11-2-17	11-2-17	
Butylbenzylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
bis-2-Ethylhexyladipate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
3,3'-Dichlorobenzidine	ND	0.19	EPA 8270D	11-2-17	11-2-17	
<b>Benzo[a]anthracene</b>	<b>0.017</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Chrysene</b>	<b>0.019</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
bis(2-Ethylhexyl)phthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
Di-n-octylphthalate	ND	0.19	EPA 8270D	11-2-17	11-2-17	
<b>Benzo[b]fluoranthene</b>	<b>0.020</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo(j,k)fluoranthene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Benzo[a]pyrene</b>	<b>0.020</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Indeno[1,2,3-cd]pyrene</b>	<b>0.013</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
Dibenz[a,h]anthracene	ND	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Benzo[g,h,i]perylene</b>	<b>0.014</b>	0.0075	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Surrogate:</b>		<b>Percent Recovery</b>		<b>Control Limits</b>		
2-Fluorophenol		53		18 - 113		
Phenol-d6		58		19 - 119		
Nitrobenzene-d5		53		19 - 119		
2-Fluorobiphenyl		66		33 - 109		
2,4,6-Tribromophenol		69		19 - 121		
Terphenyl-d14		70		30 - 116		



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM**  
 page 1 of 2

Matrix: Soil  
 Units: mg/Kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
n-Nitrosodimethylamine	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Pyridine	ND	0.36	EPA 8270D	11-2-17	11-2-17	
Phenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Aniline	ND	0.18	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethyl)ether	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Chlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,3-Dichlorobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,4-Dichlorobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Benzyl alcohol	ND	0.18	EPA 8270D	11-2-17	11-2-17	
1,2-Dichlorobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Methylphenol (o-Cresol)	ND	0.036	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroisopropyl)ether	ND	0.036	EPA 8270D	11-2-17	11-2-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.036	EPA 8270D	11-2-17	11-2-17	
n-Nitroso-di-n-propylamine	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Hexachloroethane	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Nitrobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Isophorone	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Nitrophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,4-Dimethylphenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethoxy)methane	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,4-Dichlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,2,4-Trichlorobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Naphthalene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
4-Chloroaniline	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Hexachlorobutadiene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
4-Chloro-3-methylphenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
1-Methylnaphthalene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Hexachlorocyclopentadiene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,4,6-Trichlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,3-Dichloroaniline	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,4,5-Trichlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Chloronaphthalene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2-Nitroaniline	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,4-Dinitrobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Dimethylphthalate	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,3-Dinitrobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,6-Dinitrotoluene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,2-Dinitrobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Acenaphthylene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
3-Nitroaniline	ND	0.036	EPA 8270D	11-2-17	11-2-17	



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

### SEMIVOLATILES EPA 8270D/SIM

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
2,4-Dinitrophenol	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Acenaphthene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
4-Nitrophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,4-Dinitrotoluene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Dibenzofuran	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,3,5,6-Tetrachlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
2,3,4,6-Tetrachlorophenol	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Diethylphthalate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
4-Chlorophenyl-phenylether	ND	0.036	EPA 8270D	11-2-17	11-2-17	
4-Nitroaniline	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Fluorene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
4,6-Dinitro-2-methylphenol	ND	0.18	EPA 8270D	11-2-17	11-2-17	
n-Nitrosodiphenylamine	ND	0.036	EPA 8270D	11-2-17	11-2-17	
1,2-Diphenylhydrazine	ND	0.036	EPA 8270D	11-2-17	11-2-17	
4-Bromophenyl-phenylether	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Hexachlorobenzene	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Pentachlorophenol	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Phenanthrene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Anthracene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Carbazole	ND	0.036	EPA 8270D	11-2-17	11-2-17	
Di-n-butylphthalate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Fluoranthene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Benzidine	ND	0.36	EPA 8270D	11-2-17	11-2-17	
Pyrene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Butylbenzylphthalate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
bis-2-Ethylhexyladipate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
3,3'-Dichlorobenzidine	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Benzo[a]anthracene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Chrysene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
bis(2-Ethylhexyl)phthalate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Di-n-octylphthalate	ND	0.18	EPA 8270D	11-2-17	11-2-17	
Benzo[b]fluoranthene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo(j,k)fluoranthene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[a]pyrene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Indeno[1,2,3-cd]pyrene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Dibenz[a,h]anthracene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[g,h,i]perylene	ND	0.0073	EPA 8270D/SIM	11-2-17	11-2-17	
<b>Surrogate:</b>	<b>Percent Recovery</b>	<b>Control Limits</b>				
2-Fluorophenol	74	18 - 113				
Phenol-d6	78	19 - 119				
Nitrobenzene-d5	69	19 - 119				
2-Fluorobiphenyl	76	33 - 109				
2,4,6-Tribromophenol	78	19 - 121				
Terphenyl-d14	80	30 - 116				



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMIVOLATILES 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:	MB1102S2					
n-Nitrosodimethylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Pyridine	ND	0.33	EPA 8270D	11-2-17	11-2-17	
Phenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Aniline	ND	0.17	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethyl)ether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Chlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,3-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,4-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Benzyl alcohol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
1,2-Dichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Methylphenol (o-Cresol)	ND	0.033	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroisopropyl)ether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
(3+4)-Methylphenol (m,p-Cresol)	ND	0.033	EPA 8270D	11-2-17	11-2-17	
n-Nitroso-di-n-propylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Hexachloroethane	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Nitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Isophorone	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Nitrophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dimethylphenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
bis(2-Chloroethoxy)methane	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2,4-Trichlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Naphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4-Chloroaniline	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Hexachlorobutadiene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Chloro-3-methylphenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
1-Methylnaphthalene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Hexachlorocyclopentadiene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4,6-Trichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3-Dichloroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4,5-Trichlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Chloronaphthalene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,4-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Dimethylphthalate	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,3-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,6-Dinitrotoluene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2-Dinitrobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Acenaphthylene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
3-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	



Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMOVOLATILES EPA 8270D/SIM  
METHOD BLANK QUALITY CONTROL**  
page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1102S2					
2,4-Dinitrophenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Acenaphthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4-Nitrophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,4-Dinitrotoluene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Dibenzofuran	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3,5,6-Tetrachlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
2,3,4,6-Tetrachlorophenol	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Diethylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
4-Chlorophenyl-phenylether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Nitroaniline	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Fluorene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
4,6-Dinitro-2-methylphenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
n-Nitrosodiphenylamine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
1,2-Diphenylhydrazine	ND	0.033	EPA 8270D	11-2-17	11-2-17	
4-Bromophenyl-phenylether	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Hexachlorobenzene	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Pentachlorophenol	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Phenanthrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Carbazole	ND	0.033	EPA 8270D	11-2-17	11-2-17	
Di-n-butylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzidine	ND	0.33	EPA 8270D	11-2-17	11-2-17	
Pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Butylbenzylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
bis-2-Ethylhexyladipate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
3,3'-Dichlorobenzidine	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Benzo[a]anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Chrysene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
bis(2-Ethylhexyl)phthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Di-n-octylphthalate	ND	0.17	EPA 8270D	11-2-17	11-2-17	
Benzo[b]fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo(j,k)fluoranthene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[a]pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Indeno[1,2,3-cd]pyrene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Dibenz[a,h]anthracene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Benzo[g,h,i]perylene	ND	0.0067	EPA 8270D/SIM	11-2-17	11-2-17	
Surrogate:	Percent Recovery	Control Limits				
2-Fluorophenol	82	18 - 113				
Phenol-d6	85	19 - 119				
Nitrobenzene-d5	78	19 - 119				
2-Fluorobiphenyl	85	33 - 109				
2,4,6-Tribromophenol	88	19 - 121				
Terphenyl-d14	91	30 - 116				



Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**SEMIVOLATILES EPA 8270D/SIM  
MS/MSD QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg

Analyte	Result		Spike Level		Source	Percent	Recovery	RPD	RPD	Flags
	Result	Recovery	Result	Recovery	Limits	RPD	Limit	RPD	Flags	
<b>MATRIX SPIKES</b>										
Laboratory ID:	10-377-01									
	MS	MSD	MS	MSD	MS	MSD				
Phenol	<b>0.707</b>	<b>0.759</b>	1.33	1.33	ND	53	57	25 - 103	7	36
2-Chlorophenol	<b>0.646</b>	<b>0.723</b>	1.33	1.33	ND	49	54	21 - 109	11	38
1,4-Dichlorobenzene	<b>0.233</b>	<b>0.286</b>	0.667	0.667	ND	35	43	20 - 110	20	40
n-Nitroso-di-n-propylamine	<b>0.351</b>	<b>0.402</b>	0.667	0.667	ND	53	60	20 - 111	14	38
1,2,4-Trichlorobenzene	<b>0.324</b>	<b>0.366</b>	0.667	0.667	ND	49	55	20 - 107	12	40
4-Chloro-3-methylphenol	<b>0.820</b>	<b>0.835</b>	1.33	1.33	ND	62	63	30 - 111	2	29
Acenaphthene	<b>0.385</b>	<b>0.408</b>	0.667	0.667	ND	58	61	27 - 109	6	30
4-Nitrophenol	<b>0.722</b>	<b>0.702</b>	1.33	1.33	ND	54	53	20 - 119	3	29
2,4-Dinitrotoluene	<b>0.379</b>	<b>0.382</b>	0.667	0.667	ND	57	57	32 - 103	1	30
Pentachlorophenol	<b>1.03</b>	<b>0.986</b>	1.33	1.33	ND	77	74	20 - 127	4	31
Pyrene	<b>0.437</b>	<b>0.433</b>	0.667	0.667	ND	66	65	37 - 111	1	28
<i>Surrogate:</i>										
<i>2-Fluorophenol</i>						42	47	18 - 113		
<i>Phenol-d6</i>						52	56	19 - 119		
<i>Nitrobenzene-d5</i>						49	51	19 - 119		
<i>2-Fluorobiphenyl</i>						64	64	33 - 109		
<i>2,4,6-Tribromophenol</i>						65	63	19 - 121		
<i>Terphenyl-d14</i>						65	64	30 - 116		



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**PCBs EPA 8082A**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>Client ID:</b>	<b>H-7-17-10'</b>					
Laboratory ID:	10-368-02					
Aroclor 1016	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1221	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1232	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1242	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1248	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1254	ND	0.056	EPA 8082A	10-30-17	10-30-17	
Aroclor 1260	ND	0.056	EPA 8082A	10-30-17	10-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	61		40-134			
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Laboratory ID:	10-368-04					
Aroclor 1016	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1221	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1232	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1242	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1248	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1254	ND	0.055	EPA 8082A	10-30-17	10-30-17	
Aroclor 1260	ND	0.055	EPA 8082A	10-30-17	10-30-17	
<i>Surrogate:</i>	<i>Percent Recovery</i>		<i>Control Limits</i>			
DCB	70		40-134			



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 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**PCBs EPA 8082A**  
**QUALITY CONTROL**

Matrix: Soil  
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<b>METHOD BLANK</b>						
Laboratory ID:	MB1030S1					
Aroclor 1016	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1221	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1232	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1242	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1248	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1254	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Aroclor 1260	ND	0.050	EPA 8082A	10-30-17	10-30-17	
Surrogate:	Percent Recovery		Control Limits			
DCB	73		40-134			

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD RPD	Limit	Flags
<b>MATRIX SPIKES</b>								
Laboratory ID:	10-372-01							
	MS	MSD	MS	MSD	MS	MSD		
Aroclor 1260	0.407	0.419	0.500	0.500	ND	81 84	34-126	3 16
Surrogate:								
DCB	75 80 40-134							



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Date of Report: November 6, 2017  
 Samples Submitted: October 27, 2017  
 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**

Matrix: Soil  
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	10-368-02					
<b>Client ID:</b>	<b>H-7-17-10'</b>					
Arsenic	<b>ND</b>	11	6010C	10-30-17	10-30-17	
<b>Barium</b>	<b>59</b>	2.8	6010C	10-30-17	10-30-17	
Cadmium	<b>ND</b>	0.56	6010C	10-30-17	10-30-17	
<b>Chromium</b>	<b>37</b>	0.56	6010C	10-30-17	10-30-17	
<b>Lead</b>	<b>6.0</b>	5.6	6010C	10-30-17	10-30-17	
Mercury	<b>ND</b>	0.28	7471B	10-31-17	10-31-17	
Selenium	<b>ND</b>	11	6010C	10-30-17	10-30-17	
Silver	<b>ND</b>	1.1	6010C	10-30-17	10-30-17	
Lab ID:	10-368-04					
<b>Client ID:</b>	<b>H-7-17-20'</b>					
Arsenic	<b>ND</b>	11	6010C	10-30-17	10-30-17	
<b>Barium</b>	<b>42</b>	2.7	6010C	10-30-17	10-30-17	
Cadmium	<b>ND</b>	0.55	6010C	10-30-17	10-30-17	
<b>Chromium</b>	<b>35</b>	0.55	6010C	10-30-17	10-30-17	
Lead	<b>ND</b>	5.5	6010C	10-30-17	10-30-17	
Mercury	<b>ND</b>	0.27	7471B	10-31-17	10-31-17	
Selenium	<b>ND</b>	11	6010C	10-30-17	10-30-17	
Silver	<b>ND</b>	1.1	6010C	10-30-17	10-30-17	



Date of Report: November 6, 2017  
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 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**METHOD BLANK QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: MB1030SM1&MB1031S1

Analyte	Method	Result	PQL
Arsenic	6010C	<b>ND</b>	10
Barium	6010C	<b>ND</b>	2.5
Cadmium	6010C	<b>ND</b>	0.50
Chromium	6010C	<b>ND</b>	0.50
Lead	6010C	<b>ND</b>	5.0
Mercury	7471B	<b>ND</b>	0.25
Selenium	6010C	<b>ND</b>	10
Silver	6010C	<b>ND</b>	1.0



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 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**DUPLICATE QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-364-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	<b>ND</b>	<b>ND</b>	NA	10	
Barium	<b>41.2</b>	<b>42.1</b>	2	2.5	
Cadmium	<b>ND</b>	<b>ND</b>	NA	0.50	
Chromium	<b>30.3</b>	<b>30.1</b>	1	0.50	
Lead	<b>ND</b>	<b>ND</b>	NA	5.0	
Mercury	<b>ND</b>	<b>ND</b>	NA	0.25	
Selenium	<b>ND</b>	<b>ND</b>	NA	10	
Silver	<b>ND</b>	<b>ND</b>	NA	1.0	



Date of Report: November 6, 2017  
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 Laboratory Reference: 1710-368  
 Project: 520-Montlake Phase II

**TOTAL METALS**  
**EPA 6010C/7471B**  
**MS/MSD QUALITY CONTROL**

Date Extracted: 10-30&31-17  
 Date Analyzed: 10-30&31-17

Matrix: Soil  
 Units: mg/kg (ppm)

Lab ID: 10-364-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	<b>91.6</b>	92	<b>92.2</b>	92	1	
Barium	100	<b>136</b>	95	<b>135</b>	94	0	
Cadmium	50.0	<b>47.1</b>	94	<b>46.7</b>	93	1	
Chromium	100	<b>118</b>	87	<b>116</b>	86	1	
Lead	250	<b>222</b>	89	<b>217</b>	87	2	
Mercury	0.500	<b>0.506</b>	101	<b>0.503</b>	101	1	
Selenium	100	<b>95.9</b>	96	<b>94.7</b>	95	1	
Silver	25.0	<b>20.5</b>	82	<b>20.2</b>	81	2	



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Samples Submitted: October 27, 2017  
Laboratory Reference: 1710-368  
Project: 520-Montlake Phase II

**% MOISTURE**

Date Analyzed: 10-27-17

Client ID	Lab ID	% Moisture
H-7-17-10'	10-368-02	11
H-7-17-20'	10-368-04	8



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### 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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Environmental Inc.**  
Analytical | Laboratory Testing Services

**Onsite Environmental Consulting Services**  
14648 NE 95th Street • Redmond, WA 98052  
Phone: (425) 883-3881 • [www.onsite-env.com](http://www.onsite-env.com)

14648 NE 95th Street • Redmond, WA 98052

Company: INNOVEX  
Project Number:

15

Project Name: /

100

Project Manager:

LEON HAYES

Sampled by:  
M. Williams

Turnaround Request (in working days)						Laboratory Number: <b>10-368</b>
(Check One)						
Company:	<b>INNOVEX</b>					
Project Number:						
Project Name:	<b>S20/MONTLAKE PH IT</b>					
Project Manager:	<b>CLEM HAYMAN</b>					
Sampled by:	<b>M. WILLIAMS</b>					
Lab ID	Sample Identification		Date Sampled	Time Sampled	Matrix	Number of Containers
1	14.7.17	5'	10.23.17	1008	S	6
2	14.7.17	10'				X X X X X
3	14.7.17	15'				X X X X X
4	14.7.17	20'				X X X X X
5	14.7.17	25'				X X X X X
6	14.7.17	30'	10.24.17	1220	-	X X X X X
7	14.7.17	35'				X X X X X
8	14.7.17	40'				X X X X X
9	14.7.17	45'				X X X X X
10	14.7.17	50'				X X X X X
Signature	Company	Date	Time	Comments/Special Instructions		
Relinquished	<b>INNOVEX</b>	10.27.17	9:20			
Received	<b>INNOVEX</b>	10.27.17	9:20			
Relinquished						
Received						
Relinquished						
Received						
Reviewed						
Reviewed/Date						
Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>						
Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDS) <input checked="" type="checkbox"/>						

