

November 12, 2014

Mr. Evan Kaseguma
Hines Real Estate Investment Trust Properties, L.P.
800 Fifth Avenue, Suite 3838
Seattle, Washington 98104

BY E-MAIL ONLY

**RE: SUMMARY OF SUBSURFACE INVESTIGATION
MERCER ISLAND APARTMENTS – KING PARCEL PROPERTY
2885 78th AVENUE SOUTHEAST
MERCER ISLAND, WASHINGTON
FARALLON PN: 691-018**

Dear Mr. Kaseguma:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter to provide a summary of the subsurface investigation conducted in September and October 2014 on behalf of Hines Real Estate Investment Trust Properties, L.P. (Hines) for the property at 2885 78th Avenue Southeast in Mercer Island, Washington (herein referred to as the King Parcel) (Figures 1 and 2). The purpose of the subsurface investigation was to further evaluate the potential release and/or source of constituents of potential concern (COPCs) to soil and/or groundwater from historical and/or current operations at the King Parcel, and to refine the volume of contaminated media that would affect redevelopment costs for the King Parcel if purchased by Hines.

This letter includes a summary of the relevant background, previous investigations conducted by Farallon and others, the geology and hydrogeology of the King Parcel, a summary of the results of the additional subsurface investigation conducted by Farallon in September and October 2014, and conclusions.

BACKGROUND

The King Parcel is in a commercial area of Mercer Island, Washington bounded by a McDonald's restaurant to the north, 77th Avenue Southeast to the west, 78th Avenue Southeast to the east, and Southeast 29th Street to the south (Figure 2). The King Parcel includes King County Tax Parcel No. 531513-1326, owned by King Enterprises of Washington LLC, which is developed with a 12,100-square-foot two-story strip mall building that was constructed in 1962.

According to historical sources reviewed during the completion of a Phase I Environmental Site Assessment (Phase I ESA) of the King Parcel conducted by Farallon in October 2013, the King Parcel was undeveloped through 1950. The current King Parcel building was present by 1965. A residence was present on the west-adjacent Bitney Parcel in 1967, and the subsequent occupants of both the Bitney and King Parcels have been commercial (Figure 2). According to the owner of the King Parcel, Ms. Judith King, the dry cleaner business has been present on the



King Parcel since approximately 1998. Prior to 1998, the dry cleaner suite was occupied by a nail salon.

PREVIOUS INVESTIGATIONS

As stated above, Farallon conducted a Phase I ESA of the King Parcel in October 2013, pursuant to the processes outlined in ASTM International Standard E1527-05 on behalf of Hines. The results of the assessment were documented in the *Phase I Environmental Site Assessment Report, 2885 78th Avenue Southeast, Mercer Island, Washington* dated October 17, 2013, prepared by Farallon (Phase I ESA Report). The Phase I ESA Report identified the potential release of hazardous substances from historical and/or ongoing dry cleaning operations on the King Parcel as a recognized environmental condition for the King Parcel.

Farallon was provided with the following previous reports prepared for the King Parcel:

- Memorandum regarding Limited Subsurface Investigation, King Property, 2885 78th Avenue Southeast, Mercer Island, Washington dated June 26, 2012, prepared by Pacific Crest Environmental, LLC for PMF Investments, LLC (Limited SI); and
- Letter regarding Phase I Environmental Site Assessment, Limited Phase 2 Assessment, Mercer Island Multi-Family Residential Site, 2885 – 78th Avenue SE (King County Parcel #5315101326), Mercer Island, Washington dated November 9, 2012, prepared by ABPB Consulting for Continental Properties, LLC (Phase I/Phase II Letter Report).

According to the reports provided, a previous Phase I ESA conducted at the King Parcel identified the historical and current dry cleaning operations on the King Parcel and known or suspected releases on properties adjacent and proximate to the King Parcel as recognized environmental conditions. The Limited SI included advancement and sampling of borings KP-1 through KP-4 proximate to the retail strip mall building on the southern portion of the King Parcel (Figure 2). Soil and reconnaissance groundwater samples were analyzed for halogenated volatile organic compounds (HVOCs) and total petroleum hydrocarbons (TPH) by Northwest Method Hydrocarbon Identification (HCID). Based on the results of the HCID analysis, one soil sample collected from boring KP-3 was subsequently analyzed for TPH as diesel-range organics (DRO) and as oil-range organics (ORO) by Northwest Method NWTPH-Dx. ORO was detected at a concentration of 580 milligram per kilogram (mg/kg) in a soil sample collected from 4 feet below ground surface (bgs) in boring KP-3, which is less than the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A cleanup level of 2,000 mg/kg for ORO in soil. GRO, DRO, ORO, and HVOCs were reported non-detect at the laboratory practical quantitation limit (PQL) for each of the remaining samples collected from borings KP-1 through KP-4.

The Phase I/Phase II Letter Report included both a Phase I ESA report and a summary of additional subsurface investigation conducted at the King Parcel. The Phase I/Phase II Letter Report identified the on-site dry cleaning operations and the south-adjacent gasoline service station operations as recognized environmental conditions for the King Parcel. Monitoring wells



MW-1 through MW-3 (Figure 2) were installed along the southern King Parcel boundary to further evaluate potential migration of hazardous substances from a south-adjacent gasoline service station. Soil and groundwater samples were collected and analyzed for TPH as gasoline-range organics (GRO); benzene, toluene, ethylbenzene, and total xylenes (BTEX); and/or HVOCs. BTEX and GRO were reported non-detect at the laboratory PQL for the soil samples collected from borings MW-1 through MW-3. BTEX, GRO, and HVOCs were reported non-detect at the laboratory PQL also for the groundwater samples collected from monitoring wells MW-1 through MW-3.

ABPB Consulting concluded that, based on the results included in the Limited SI and the Phase I/Phase II Letter Report, the risk for significant contamination was minimal. The analytical results provided in the Limited SI and the Phase I/Phase II Letter Report are included in Tables 2 through 6.

FARALLON SUBSURFACE INVESTIGATION – SEPTEMBER 2013

Farallon conducted an initial subsurface investigation at the King Parcel in September 2013 to evaluate the potential release of COPCs to soil gas, soil, and/or groundwater from historical and/or current operations at the King Parcel, and/or migration of COPCs onto the King Parcel from adjacent properties. The September 2013 subsurface investigation consisted of groundwater monitoring using existing groundwater monitoring wells MW-1 through MW-4, advancement and sampling of borings B-1 through B-8, and installation and sampling of a soil gas monitoring probe inside the dry cleaner suite (Figure 2). Soil and groundwater samples collected from the King Parcel were analyzed for GRO, DRO, ORO, BTEX, HVOCs, and/or total Resource Conservation and Recovery Act (RCRA) metals, including arsenic, barium, cadmium, chromium, lead, mercury, selenium, and silver. A soil gas sample collected from the soil gas monitoring probe was analyzed for HVOCs.

Trichloroethene (TCE) and cis-1,2-dichloroethene (DCE), degradation products of tetrachloroethene (PCE), were detected in the reconnaissance groundwater sample collected from boring B-1, advanced on the down-gradient south side of the dry cleaner suite (Figure 2; Table 2). Although the concentrations of TCE and cis-1,2-DCE detected were less than MTCA cleanup levels, these data indicated a potential release of PCE to the subsurface proximate to the dry cleaner suite. Groundwater samples collected from borings B-2, B-4, and B-5 and existing monitoring wells MW-1 through MW-4 were reported non-detect at the laboratory PQL for all COPCs tested for, including HVOCs, DRO, ORO, GRO, and BTEX (Figure 2; Tables 2 and 3).

The total RCRA metals barium and chromium were detected at low concentrations less than MTCA cleanup levels in a soil sample collected from boring B-1, consistent with background metals concentrations. The remaining RCRA metals were reported non-detect at the laboratory PQL (Table 6). The remaining soil samples collected from borings advanced during the September 2013 subsurface investigation conducted by Farallon were reported non-detect at the laboratory PQL for the remaining COPCs, including BTEX, DRO, ORO, and HVOCs (Tables 4 through 6).



PCE was detected at a concentration of 2,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) and TCE was detected at a concentration of $5.2 \mu\text{g}/\text{m}^3$ in the soil gas sample collected from the soil gas monitoring probe installed inside the dry cleaner suite (Figure 2), which exceed the MTCA Method B Screening Levels for Soil Gas in a residential setting (Table 7). In addition, the PCE concentration exceeds the Modified MTCA Method B Screening Level for Soil Gas calculated for a commercial setting (Tables 7 and 8). The remaining associated PCE degradation products, including cis-1,2-DCE, trans-1,2-DCE, and vinyl chloride, were reported non-detect at the laboratory PQL (Table 7).

Details of the scope of work for the September 2013 subsurface investigation conducted by Farallon and the results are presented in the letter regarding Summary of Subsurface Investigation, Mercer Island Apartments, 2885 78th Avenue Southeast, Mercer Island, Washington dated November 15, 2013, prepared by Farallon.

The available data indicated a suspected release of PCE to the shallow subsurface beneath the dry cleaner suite, and a potential release of ORO on the south side of the King Parcel. Based on these data, additional characterization was recommended to further characterize the nature and extent of a suspected HVOC source area proximate to the dry cleaner suite. Additional borings were proposed south of the dry cleaner suite to characterize the nature and extent of ORO detected in a soil sample collected from prior boring KP-3 (Figure 2).

FARALLON SUBSURFACE INVESTIGATION – DECEMBER 2013

Farallon conducted additional due diligence at the King Parcel in December 2013 to evaluate the potential release of COPCs in soil and groundwater beneath the strip mall building on the King Parcel and proximate to prior boring KP-3. The December 2013 subsurface investigation consisted of groundwater monitoring using existing groundwater monitoring wells MW-1 through MW-4 and advancement and sampling of borings B-9 through B-14 (Figure 2). Soil and reconnaissance groundwater samples collected from borings advanced beneath the strip mall building on the King Parcel (borings B-9 through B-12) were analyzed for HVOCs. Soil samples collected from borings B-13 and B-14, proximate to prior boring KP-3, were analyzed for DRO and ORO.

PCE was detected at concentrations ranging from 0.01 to 0.051 mg/kg in the soil samples collected from borings B9 through B-12 inside the dry cleaner suite and adjacent storage room (Table 4). The highest PCE concentration of 0.051 mg/kg, which slightly exceeded the MTCA Method A cleanup level of 0.05 mg/kg, was detected in a soil sample collected at approximately 2.5 feet bgs in boring B-10, adjacent to the west side of the dry cleaning machine.

Low concentrations of PCE ranging from 0.3 to 1.6 micrograms per liter ($\mu\text{g}/\text{l}$), less than the MTCA Method A cleanup level, were detected in the reconnaissance groundwater samples collected from borings B-9, B-10, and B-12 advanced proximate to the dry cleaning machine (Figure 2). The soil and groundwater data obtained from the borings beneath the strip mall on



the King Parcel indicated a suspected release of PCE proximate to the dry cleaning machine and/or associated sanitary side sewer lines.

ORO was detected at a concentration of 5,600 mg/kg in a soil sample collected at a depth of 0.5 foot bgs in boring B-13, which exceeded the MTCA Method A cleanup level of 2,000 mg/kg (Table 5). ORO was detected at lower concentrations of 81 and 860 mg/kg in soil samples collected at a depth of approximately 4 feet bgs in borings B-13 and B-14. ORO was reported non-detect at the laboratory PQL in the deeper soil samples collected at approximately 7 feet bgs in borings B-13 and B-14. These data indicated a localized source of ORO-contaminated soil on the southern portion of the King Parcel.

Details of the scope of work for the December 2013 subsurface investigation conducted by Farallon and the results are presented in the letter regarding Summary of Additional Subsurface Investigation, Mercer Island Apartments, 2885 78th Avenue Southeast, Mercer Island, Washington dated January 21, 2014, prepared by Farallon.

GEOLOGY/HYDROGEOLOGY

Based on Farallon's observations made during the subsurface investigations conducted in September and December 2013 and September and October 2014, the general King Parcel stratigraphy comprises varying amounts of fill consisting of silty sand with some gravel, underlain by alternating layers of silt and silty sand to the total depth explored of approximately 39 feet bgs.

A shallow groundwater-bearing zone was encountered at an average depth of approximately 7.5 feet bgs in the southern portion of the King Parcel. Groundwater was encountered at an average depth of 2 to 3 feet bgs beneath the dry cleaner suite. Based on multiple groundwater monitoring events for King Parcel monitoring wells MW-1 through MW-4, the interpreted groundwater flow direction in the shallow groundwater-bearing zone is southwest at the King Parcel (Figure 2).

SUBSURFACE INVESTIGATION—SEPTEMBER AND OCTOBER 2014

Additional subsurface investigation was conducted in September and October 2014 to further evaluate the nature and extent of the confirmed HVOC source area proximate to the dry cleaner suite on the King Parcel and a localized ORO source south of the strip mall building on the King Parcel. The additional subsurface investigation included soil and groundwater reconnaissance sampling, and monitoring well installation and sampling. A summary of the subsurface investigation conducted in September and October 2014 is provided below.



FIELD SAMPLING PROGRAM

Borings B-15 through B-21 were advanced to further refine the nature and extent of PCE contamination in soil and groundwater associated with suspected releases proximate to the dry cleaner suite. The borings were advanced to depths ranging from 7.5 to 39 feet bgs. Borings B-22 through B-25 were advanced to refine the nature and extent of ORO contamination in soil in a localized area on the southern portion of the King Parcel proximate to prior borings KP-3, B-13, and B-14. The boring locations are shown on Figures 2 and 3 and a summary of the rationale for each boring is provided below:

- Boring B-15 was advanced in the parking area south of the dry cleaner suite at a 60-degree angle to facilitate deeper soil sampling beneath the dry cleaning equipment area. Boring B-15 was advanced approximately 45 feet at an angle of 60 degrees, which equates to a vertical depth of approximately 39 feet bgs beneath the dry cleaning equipment area. In addition, boring B-15 was converted to groundwater monitoring well MW-5 to the total depth of 39 feet bgs to facilitate collection of a deeper groundwater sample as discussed below.
- Boring B-16 was advanced in the northern portion of the dry cleaner suite, to bound the northern extent of PCE contamination in soil encountered in prior boring B-9. Boring B-16 was advanced to a total depth of 11.5 feet bgs.
- Borings B-17 and B-18 were advanced at the east-adjacent King Insurance suite to refine the nature and extent of PCE-contaminated soil and groundwater east of prior borings B-9, B-11, and B-12.
- Borings B-19 through B-21 were advanced west-adjacent to the dry cleaner suite, including borings B-20 and B-21 inside the art studio suite, and B-19 south of the art studio suite, and a storage room containing a PCE sludge waste drum associated with the dry cleaner operation, to bound the western extent of PCE contamination in soil and/or groundwater in prior borings B-1, B-9, and B-10.
- Borings B-22 through B-25 were advanced in the parking area south of the building on the King Parcel to refine the localized source of ORO-contaminated soil proximate to prior borings KP-3, B-13, and B-14.



Soil Sampling

Soil samples were collected continuously during the advancement of boring B-15 by Holt Services of Edgewood, Washington using a sonic drilling rig equipped with polyethylene bag sample liners. Soil samples were collected continuously during the advancement of borings B-16 through B-25 by ESN Northwest of Olympia, Washington using a direct-push drill rig equipped with macrocore samplers. A Farallon Geologist observed subsurface conditions and retained soil samples from selected intervals for laboratory analysis based on field indications of potential contamination. The information recorded on the boring logs included soil types encountered, visual and olfactory evidence of potential contamination, and volatile organic vapor concentrations as measured using a photoionization detector. The completed boring logs are provided in Attachment A. The soil samples were collected and transferred directly into laboratory-prepared glass sample containers.

Select soil samples collected from borings B-15 through B-21 were collected and preserved in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A and analyzed for HVOCs by EPA Method 8260C. Select soil samples collected from boring B-15 and borings B-22 through B-25 were collected in 4-ounce glass jars and analyzed for DRO and ORO by Northwest Method NWTPH-Dx.

Groundwater Sampling

Boring B-15 was converted to monitoring well MW-5 in accordance with the Minimum Standards for Construction and Maintenance of Wells as established in Chapter 173-160 of the Washington Administrative Code. The monitoring well was constructed using a 2-inch-diameter Schedule 40 polyvinyl chloride (PVC) casing with 10 feet of 0.010-inch slotted screen from 35 to 45 feet and 35 feet of solid PVC riser to surface grade. The borehole annulus surrounding the well screen was filled with a filter pack consisting of clean 10/20 sand and extended from less than 1 foot below to approximately 2 feet above the screened interval. A bentonite seal was placed from the top of the sand filter pack to a depth of approximately 2 feet bgs. A 1-foot-thick concrete surface seal was placed around the well from the top of the bentonite to approximately 1 foot bgs and surrounding the flush mounted monument. The monitoring well was developed using a submersible pump and surge block shortly after well construction was completed and was further developed with a disposable bailer prior to sampling. The well was developed until the majority of fine-grained sediment had been removed from the well screen and adjacent sand pack. Monitoring well construction details are included in Attachment A.



Prior to sampling, a Farallon field scientist purged groundwater from the monitoring well in accordance with EPA low-flow sampling protocols. The well purging and sampling was performed using a peristaltic pump with dedicated polyethylene tubing at flow rates ranging from 100 to 300 milliliters per minute. The tubing intake was placed in the bottom 5 feet of the water column to collect a groundwater sample for analysis for HVOCs using EPA Method 8260C. Water quality parameters were monitored during purging using a Horiba water quality system equipped with a flow-through cell. The water quality parameters monitored and recorded included temperature, pH, specific conductance, oxidation-reduction potential, and dissolved oxygen. The well was purged until all parameters stabilized. Following purging, a groundwater sample was collected directly from the pump outlet tubing upstream of the flow-through cell, and was placed into laboratory-prepared sample containers.

A 5-foot PVC screen was placed in borings B-16 through B-21, and grab reconnaissance groundwater samples were obtained from the center of the screened interval. Soil and groundwater samples collected from the borings and monitoring well were placed on ice in a cooler and delivered under standard chain-of-custody protocols to OnSite Environmental Inc. of Redmond, Washington for storage pending potential analysis.

INVESTIGATION-DERIVED WASTE

Soil cuttings, decontamination water, purge water, and other wastewater generated during the subsurface investigation were temporarily stored on the King Parcel in labeled drums. The analytical results for the soil and groundwater samples were used to develop a waste profile to prepare for disposal of the waste off the King Parcel to an Ecology-approved disposal facility. The waste disposal process is currently in progress.

RESULTS

A summary of the laboratory analytical results for groundwater samples collected from the King Parcel is provided in Tables 2 and 3. A summary of laboratory analytical results for soil samples collected from the King Parcel is provided in Tables 4 through 6. The laboratory analytical reports for the soil and groundwater samples collected during the subsurface investigation conducted in September and October 2014 are provided in Attachment B. A summary of the laboratory analytical results for HVOCs for the prior soil gas sample is presented in Table 7. *MTCA Method B and Modified Method B Air Cleanup Level and Soil Gas Screening Level Calculations for PCE and TCE* are provided in Table 8.

SOIL

PCE was detected in only one soil sample collected from the borings advanced east of the dry cleaner suite proximate to the art studio. PCE was detected at a concentration of 0.0056 mg/kg, less than the MTCA Method A cleanup level, in the soil sample collected from 1 foot bgs in boring B-21 advanced in the central portion of the art studio suite (Figure 3; Table 4). The remaining soil samples collected from boring B-21 to a total depth of 9.5 feet bgs were reported non-detect at the laboratory PQL for HVOCs. In addition, soil samples collected from borings



B-20 and B-19 advanced north and south of boring B-21 were reported non-detect at the laboratory PQL for HVOCs (Figure 3; Table 4).

PCE was reported non-detect at the laboratory PQL in the soil samples collected from boring B-16 to a total depth of 11 feet bgs at the north end of the dry cleaner suite (Figure 3; Table 4). These data bound the extent of PCE-contaminated soil north of prior boring B-9.

PCE was reported non-detect in the soil samples collected from borings B-17 and B-18 advanced inside the east-adjacent King Insurance suite. These data bound the extent of PCE-contaminated soil northeast and east of prior borings B-9, B-11, and B-12 advanced inside the dry cleaner and nail salon suites (Figure 3; Table 4).

Borings B-22 through B-25 were advanced in the parking area south of the building on the King Parcel to evaluate the nature and extent of ORO-contaminated soil previously detected in prior borings KP-3, B-13, and B-14 (Figure 3). The soil sample collected from boring B-15 at 5 feet bgs was also used as a part of the evaluation of this localized ORO source area. The highest concentration of ORO of 5,600 mg/kg, which exceeds the MTCA Method A cleanup level of 2,000 mg/kg for ORO, was detected in a soil sample collected at a depth of 0.5 foot bgs in prior boring B-13. Deeper soil samples collected from boring B-13 at depths of 4 and 6.5 feet bgs were reported less than MTCA Method A cleanup level and non-detect at the laboratory PQL for ORO, respectively (Figure 3).

ORO was detected at concentrations of 1,200, 100, and 94 mg/kg in soil samples collected at depths of 0.5, 3, and 5 feet, respectively, in boring B-25 advanced west of prior boring B-13 (Figure 3).

ORO was detected at a decreased concentration of 190 mg/kg in the soil sample collected at a depth of approximately 0.5 foot bgs in boring B-23 advanced east of boring B-13 (Figure 3). Deeper soil samples collected at 3 and 5 feet bgs from B-23 were reported non-detect at the laboratory PQL for ORO. ORO was reported non-detect at the laboratory PQL in soil samples collected from depths of 0.5, 3, and 5 feet bgs in boring B-24 south of prior boring B-13.

These data bound the ORO-contaminated soil to the east and south. However, the lateral extent of ORO-contaminated soil west of boring B-25 is not fully characterized. The low concentrations of DRO and/or ORO detected in soil samples collected from borings B-15 and B-22 north of B-13 are within the estimated area of PCE-contaminated soil and/or groundwater and therefore would be excavated with the Contained-In soil.

Groundwater samples collected from adjacent monitoring well MW-2 were reported non-detect at the laboratory PQL for HVOCs and petroleum hydrocarbons (Tables 2 and 3).

GROUNDWATER

Groundwater elevation contours for the King Parcel were developed using depth-to-water measurements obtained from the King Parcel monitoring wells on December 8, 2013 (Table 1).



Groundwater contours calculated using groundwater levels measured on December 8, 2013 indicate a groundwater flow direction in the shallow groundwater-bearing zone to the southwest at an estimated horizontal hydraulic gradient of approximately 0.009 foot per foot, which is consistent with the groundwater monitoring event conducted at the King Parcel in September 2013 (Figure 2; Table 1).

PCE was detected at a concentration of 0.37 µg/l, less than the MTCA Method A cleanup level, in the reconnaissance groundwater sample collected from boring B-20 advanced in the north portion of the art studio suite (Figure 3). The remaining reconnaissance groundwater samples collected from new borings B-16 through B-19 and B-21 advanced west, east, and north of the dry cleaner suite were reported non-detect at the laboratory PQL for HVOCs (Figure 3). PCE was reported non-detect at the laboratory PQL in the deeper groundwater sample collected from monitoring well MW-5 (Figure 2).

CONCLUSIONS

PCE and associated degradation compounds detected in soil gas, soil, and groundwater samples collected from the borings advanced proximate to the dry cleaning equipment area and associated sanitary side sewer lines beneath the dry cleaner suite confirm a localized source area from suspected releases likely associated with the operation of the dry cleaner business on the King Parcel.

Based on the subsurface investigations conducted at the King Parcel, the lateral extent of soil and/or groundwater with detected concentrations of PCE and/or degradation compounds is generally bounded to the north by borings B-16 and B-17, to east by borings B-17 and B-18, to the south by borings B-15 and B-19, and to the west by borings KP-4, B-21, and B-2 (Figure 3). Soil and/or groundwater with detected concentrations of PCE and/or degradation compounds in this source area will require special handling, treatment, and/or disposal during future redevelopment activities. Soil containing PCE and/or degradation compounds will require transport and disposal under a Contained-In determination from Ecology if excavated during redevelopment. The estimated area of HVOC-contaminated soil that will require special handling as Contained-In soil if excavated during redevelopment is shown on Figure 3. In addition, groundwater generated from proposed dewatering activities during redevelopment on the King Parcel will also require special handling and treatment prior to discharge to either the public sanitary sewer and/or stormwater systems.

ORO concentrations detected in soil samples collected from borings KP-3, B-13, B-14, B-22, B-23, and B-25 on the south side of the King Parcel indicate a localized area of shallow petroleum-contaminated soil (Figure 3). The localized area of petroleum-contaminated soil will also require special handling and/or disposal in accordance with the *Ecology Guidance for Remediation of Petroleum Contaminated Soils, Ecology 2011* if excavated during future redevelopment of the King Parcel.



CLOSING

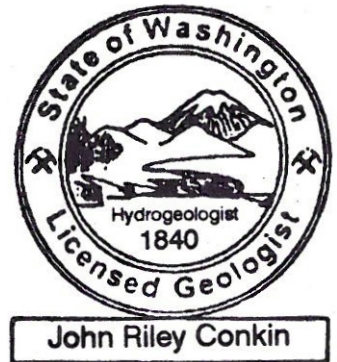
Farallon appreciates the opportunity to provide Hines with environmental consulting services. Please contact either of the undersigned at (425) 295-0800 if you have questions or comments regarding this letter.

Sincerely,

Farallon Consulting, L.L.C.

Jennifer L. Moore
Associate Scientist

J. Riley Conkin, L.G., L.H.G.
Principal Geologist



Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *Groundwater Contour and HVOC Analytical Results Map*
Figure 3, *Soil and Groundwater Analytical Results for HVOCs and TPH*
Table 1, *Groundwater Elevation Data*
Table 2, *Summary of Groundwater Sample Analytical Results for Select HVOCs*
Table 3, *Summary of Groundwater Sample Analytical Results for TPH and BTEX*
Table 4, *Summary of Soil Sample Analytical Results for Select HVOCs*
Table 5, *Summary of Soil Sample Analytical Results for TPH and BTEX*
Table 6, *Summary of Soil Sample Analytical Results for RCRA Metals*
Table 7, *Summary of Subslab Soil Gas Analytical Results for Selected HVOCs*
Table 8, *MTCA Method B and Modified Method B Air Cleanup Level and Soil Gas Screening Level Calculations for PCE and TCE*
Attachment A, *Boring Logs*
Attachment B, *Laboratory Analytical Reports*

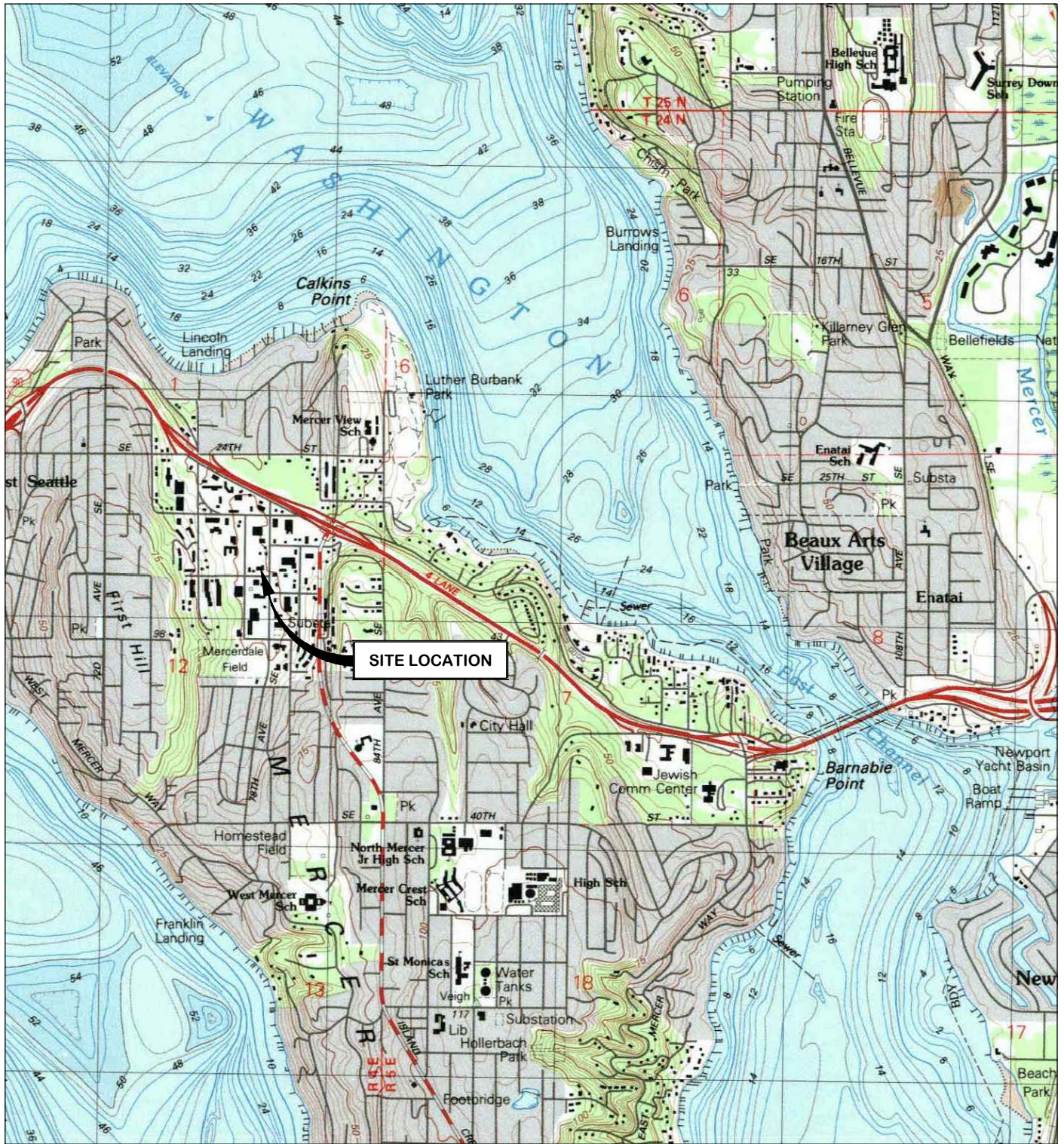
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FIGURES

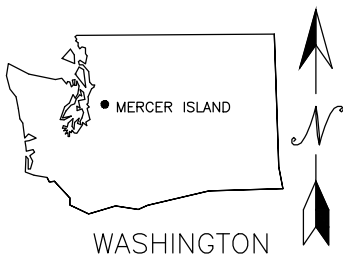
SUMMARY OF SUBSURFACE INVESTIGATION

Mercer Island Apartments
2885 78TH Avenue Southeast
Mercer Island, Washington

Farallon PN: 691-018



REFERENCE: 7.5 MINUTE USGS QUADRANGLE BELLEVUE SOUTH, WASHINGTON. DATED 1983





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CONSULTING

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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland

California
Oakland | Sacramento

FIGURE 1

SITE VICINITY MAP
2885 78th AVENUE SOUTHEAST
MERCER ISLAND, WASHINGTON

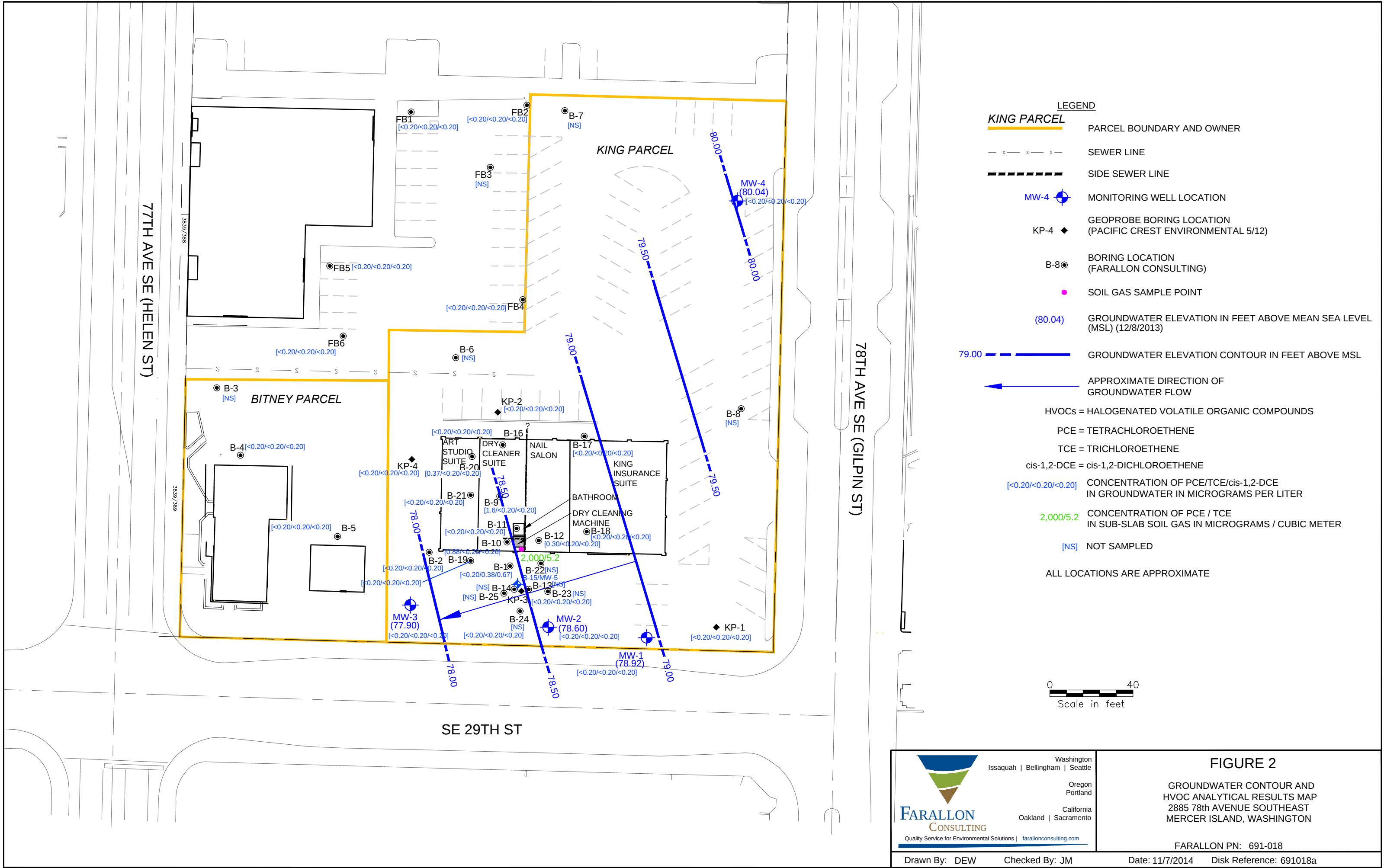
FARALLON PN: 691-018

Drawn By: DEW

Checked By: DC

Date: 11/7/2014

Disk Reference: 691018



- LEGEND**
- KING PARCEL**
- PARCEL BOUNDARY AND OWNER
 - SEWER LINE
 - SIDE SEWER LINE
 - MONITORING WELL LOCATION
 - GEOPROBE BORING LOCATION (PACIFIC CREST ENVIRONMENTAL 5/12)
 - BORING LOCATION (FARALLON CONSULTING)
 - SOIL GAS SAMPLE POINT
 - GROUNDWATER ELEVATION IN FEET ABOVE MEAN SEA LEVEL (MSL) (12/8/2013)
 - GROUNDWATER ELEVATION CONTOUR IN FEET ABOVE MSL
 - APPROXIMATE DIRECTION OF GROUNDWATER FLOW
- HVOCs = HALOGENATED VOLATILE ORGANIC COMPOUNDS
- PCE = TETRACHLOROETHENE
- TCE = TRICHLOROETHENE
- cis-1,2-DCE = cis-1,2-DICHLOROETHENE
- [0.20/0.20/0.20] CONCENTRATION OF PCE/TCE/cis-1,2-DCE IN GROUNDWATER IN MICROGRAMS PER LITER
- 2,000/5.2 CONCENTRATION OF PCE / TCE IN SUB-SLAB SOIL GAS IN MICROGRAMS / CUBIC METER
- [NS] NOT SAMPLED
- ALL LOCATIONS ARE APPROXIMATE

TABLES

SUMMARY OF SUBSURFACE INVESTIGATION

**Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington**

Farallon PN: 691-018

Table 1
Groundwater Elevation Data
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Location	Date Measured	Well Head Elevation (feet) ¹	Depth to Water (feet) ²	Groundwater Elevation (feet) ¹
MW-1	9/17/2013	86.3	7.72	78.58
	12/8/2013		7.38	78.92
MW-2	9/17/2013	80.94	3.51	77.43
	12/8/2013		2.34	78.60
MW-3	9/17/2013	81.15	3.58	77.57
	12/8/2013		3.25	77.90
MW-4	9/17/2013	89.91	10.32	79.59
	12/8/2013		9.87	80.04
MW-5 ³	9/25/2014	NS	3.47	unkown
	10/9/2014		3.85	unkown

NOTES:

¹ Elevation in feet above mean sea level.

NS = Not surveyed.

² In feet below top of well casing.

³ Well head elevation estimated based on well head elevation of surrounding monitoring wells (MW-2 and MW-3).

Table 2
Summary of Groundwater Sample Analytical Results for Select HVOCs
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Analytical Results (micrograms per liter)				
				PCE ¹	TCE ¹	cis-1,2-Dichloroethene ¹	trans-1,2-Dichloroethene ¹	Vinyl Chloride ¹
Monitoring Well Groundwater Samples								
MW-1	MW-1	ABPB Consulting	10/22/2012	<0.20	<0.20	<0.20	<0.20	<0.20
MW-2	MW-2	ABPB Consulting	10/22/2012	<0.20	<0.20	<0.20	<0.20	<0.20
MW-3	MW-3	ABPB Consulting	10/22/2012	<0.20	<0.20	<0.20	<0.20	<0.20
MW-1	MW-1-091713	Farallon	9/17/2013	<0.20	<0.20	<0.20	<0.20	<0.20
MW-2	MW-2-091713	Farallon	9/17/2013	<0.20	<0.20	<0.20	<0.20	<0.20
MW-3	MW-3-091713	Farallon	9/17/2013	<0.20	<0.20	<0.20	<0.20	<0.20
MW-4	MW-4-091713	Farallon	9/17/2013	<0.20	<0.20	<0.20	<0.20	<0.20
MW-5/B-15	MW-5-092514	Farallon	9/25/2014	<0.20	<0.20	<0.20	<0.20	<0.20
Reconnaissance Groundwater Samples								
B-1	B1-092713	Farallon	9/27/2013	<0.20	0.38	0.67	<0.20	<0.20
B-2	B2-092713	Farallon	9/27/2013	<0.20	<0.20	<0.20	<0.20	<0.20
B-4	B4-092713	Farallon	9/27/2013	<0.20	<0.20	<0.20	<0.20	<0.20
B-5	B5-092713	Farallon	9/27/2013	<0.20	<0.20	<0.20	<0.20	<0.20
B-9	B9-120813	Farallon	12/8/2013	1.6	<0.20	<0.20	<0.20	<0.20
B-10	B10-120813	Farallon	12/8/2013	0.88	<0.20	<0.20	<0.20	<0.20
B-12	B12-120813	Farallon	12/8/2013	0.30	<0.20	<0.20	<0.20	<0.20
B-16	B16-GW-100514	Farallon	10/5/2014	<0.20	<0.20	<0.20	<0.20	<0.20
B-17	B17-GW-100514	Farallon	10/5/2014	<0.20	<0.20	<0.20	<0.20	<0.20
B-18	B18-GW-100514	Farallon	10/5/2014	<0.20	<0.20	<0.20	<0.20	<0.20
B-19	B19-GW-100914	Farallon	10/9/2014	<0.20	<0.20	<0.20	<0.20	<0.20
B-20	B20-101414-GW	Farallon	10/14/2014	0.37	<0.20	<0.20	<0.20	<0.20
B-21	B21-101414-GW	Farallon	10/14/2014	<0.20	<0.20	<0.20	<0.20	<0.20
KP1	KP1-050112-10RG	Pacific Crest	5/1/2012	<0.20	<0.20	<0.20	<0.20	<0.20
KP2	KP2-050112-8RG	Pacific Crest	5/1/2012	<0.20	<0.20	<0.20	<0.20	<0.20
KP3	KP3-050112-10RG	Pacific Crest	5/1/2012	<0.20	<0.20	<0.20	<0.20	<0.20
KP4	KP4-050112-8RG	Pacific Crest	5/1/2012	<0.20	<0.20	<0.20	<0.20	<0.20
MTCA Cleanup Levels for Groundwater				5 ²	5 ²	16 ³	160 ³	0.2 ²

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

¹Analyzed by U.S. Environmental Protection Agency Method 8260B.

²Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

³Washington State Model Toxics Control Act Cleanup Regulation Cleanup Levels and Risk Calculations, Standard Method B Values for Groundwater,

<https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx>

Farallon = Farallon Consulting, L.L.C.

HVOCs = halogenated volatile organic compounds

PCE = tetrachloroethene

TCE = trichloroethene

Table 3
Summary of Groundwater Sample Analytical Results for TPH and BTEX
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Analytical Results (micrograms per liter)						
				DRO ¹	ORO ¹	GRO ²	Benzene ³	Toluene ³	Ethyl-benzene ³	Xylenes ³
Monitoring Well Groundwater Samples										
MW-1	MW-1	ABPB Consulting	10/22/2012	NS	NS	<100	<1.0	<1.0	<1.0	<2.0
MW-2	MW-2	ABPB Consulting	10/22/2012	NS	NS	<100	<1.0	<1.0	<1.0	<2.0
MW-3	MW-2	ABPB Consulting	10/22/2012	NS	NS	<100	<1.0	<1.0	<1.0	<2.0
MW-1	MW-1-091713	Farallon	9/17/2013	<0.27	<0.43	<100	<1.0	<1.0	<1.0	<2.0
MW-2	MW-2-091713	Farallon	9/17/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MW-3	MW-3-091713	Farallon	9/17/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
MW-4	MW-4-091713	Farallon	9/17/2013	<0.26	<0.41	<100	<1.0	<1.0	<1.0	<2.0
Reconnaissance Groundwater Samples										
KP1	KP1-050112-10RG	Pacific Crest	5/1/2012	<0.28	<0.45	<0.11	NA	NA	NA	NA
KP2	KP2-050112-8RG	Pacific Crest	5/1/2012	<0.29	<0.46	<0.12	NA	NA	NA	NA
KP3	KP3-050112-10RG	Pacific Crest	5/1/2012	<0.27	<0.44	<0.11	NA	NA	NA	NA
KP4	KP4-050112-8RG	Pacific Crest	5/1/2012	<0.26	<0.42	<0.10	NA	NA	NA	NA
B-4	B4-092713	Farallon	9/27/2013	<260	<420	<100	<1.0	<1.0	<1.0	<2.0
B-5	B5-092713	Farallon	9/27/2013	<260	<420	<100	<1.0	<1.0	<1.0	<2.0
MTCA Method A Cleanup Levels for Groundwater ⁴				500	500	1,000	5	1,000	700	1,000

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

- denotes depth of sample is unknown.

¹Analyzed by Northwest Method NWTPH-Dx.

²Analyzed by Northwest Method NWTPH-Gx.

³Analyzed by U.S. Environmental Protection Agency Method 8021B.

⁴Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

Farallon = Farallon Consulting, L.L.C.

GRO = TPH as gasoline-range organics

NA = not applicable

ORO = TPH as oil-range organics

Table 4
Summary of Soil Sample Analytical Results for Select HVOCs
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Depth (feet) ¹	Analytical Results (milligrams per kilogram) ²				
					PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
B-1	B-1-7.0	Farallon	9/27/2013	7.0	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
B-1	B1-1.0	Farallon	9/27/2013	1.0	<0.0018	<0.0018	<0.0018	<0.0018	<0.0018
B-1	B1-11.0	Farallon	9/27/2013	11.0	<0.0025	<0.0025	<0.0025	<0.0025	<0.0025
B-2	B2-1.0	Farallon	9/27/2013	1.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
B-2	B-2-4.0	Farallon	9/27/2013	4.0	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
B-2	B2-10.0	Farallon	9/27/2013	10.0	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
B-5	B5-7.0	Farallon	9/27/2013	7.0	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
B-5	B5-10.0	Farallon	9/27/2013	10.0	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
B-6	B-6-7.0	Farallon	9/27/2013	7.0	<0.0015	<0.0015	<0.0015	<0.0015	<0.0015
B-9	B9-2.5-120813	Farallon	12/8/2013	2.5	0.03	<0.00099	<0.00099	<0.00099	<0.00099
B-9	B9-5.0-120813	Farallon	12/8/2013	5.0	0.017	<0.0011	<0.0011	<0.0011	<0.0011
B-9	B9-6.2-120813	Farallon	12/8/2013	6.2	0.012	<0.00083	<0.00083	<0.00083	<0.00083
B-9	B9-8.3-120813	Farallon	12/8/2013	8.3	0.026	<0.001	<0.001	<0.001	<0.001
B-9	B9-12.0-120813	Farallon	12/8/2013	12.0	0.018	<0.00094	<0.00094	<0.00094	<0.00094
B-10	B10-2.5-120813	Farallon	12/8/2013	2.5	0.051	<0.00081	<0.00081	<0.00081	<0.00081
B-10	B10-5.0-120813	Farallon	12/8/2013	5.0	0.043	<0.0012	<0.0012	<0.0012	<0.0012
B-10	B10-7.5-120813	Farallon	12/8/2013	7.5	0.032	<0.0013	<0.0013	<0.0013	<0.0013
B-10	B10-12.3-120813	Farallon	12/8/2013	12.3	0.026	<0.00089	<0.00089	<0.00089	<0.00089
B-11	B11-2.5-120813	Farallon	12/8/2013	2.5	0.011	<0.00093	<0.00093	<0.00093	<0.00093
B-11	B11-5.0-120813	Farallon	12/8/2013	5.0	0.011	<0.0011	<0.0011	<0.0011	<0.0011
B-11	B11-7.5-120813	Farallon	12/8/2013	7.5	0.015	<0.0012	<0.0012	<0.0012	<0.0012
B-11	B11-10.8-120813	Farallon	12/8/2013	10.8	0.015	<0.00081	<0.00081	<0.00081	<0.00081
B-11	B11-14.5-120813	Farallon	12/8/2013	14.5	0.015	<0.00080	<0.00080	<0.00080	<0.00080
MTCA Cleanup Levels for Soil					0.05³	0.03³	160⁵	1,600⁴	0.667⁴

Table 4
Summary of Soil Sample Analytical Results for Select HVOCs
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Depth (feet) ¹	Analytical Results (milligrams per kilogram) ²				
					PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
B-12	B12-2.5-120813	Farallon	12/8/2013	2.5	0.012	<0.00097	<0.00097	<0.00097	<0.00097
B-12	B12-5.0-120813	Farallon	12/8/2013	5.0	0.014	<0.0011	<0.0011	<0.0011	<0.0011
B-12	B12-7.5-120813	Farallon	12/8/2013	7.5	0.026	<0.0016	<0.0016	<0.0016	<0.0016
B-12	B12-10.0-120813	Farallon	12/8/2013	10.0	0.0073	<0.0082	<0.0082	<0.0082	<0.0082
B-15	B15-5.0-092314	Farallon	9/23/2014	5.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.011
B-15	B15-15.0-092314	Farallon	9/23/2014	15.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-15	B15-25.0-092314	Farallon	9/23/2014	25.0	<0.00075	<0.00075	<0.00075	<0.00075	<0.00075
B-15	B15-30.0-092314	Farallon	9/23/2014	30.0	<0.00069	<0.00069	<0.00069	<0.00069	<0.00069
B-15	B15-35.0-092314	Farallon	9/23/2014	35.0	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087
B-15	B15-40.0-092314	Farallon	9/23/2014	40.0	<0.00087	<0.00087	<0.00087	<0.00087	<0.00087
B-15	B15-45.0-092314	Farallon	9/23/2014	45.0	<0.00076	<0.00076	<0.00076	<0.00076	<0.00076
B-16	B16-3.0-100514	Farallon	10/5/2014	3.0	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
B-16	B16-6.0-100514	Farallon	10/5/2014	6.0	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
B-16	B16-11.0-100514	Farallon	10/5/2014	11.0	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
B-17	B17-3.0-100514	Farallon	10/5/2014	3.0	<0.00094	<0.00094	<0.00094	<0.00094	<0.00094
B-17	B17-7.0-100514	Farallon	10/5/2014	7.0	<0.00095	<0.00095	<0.00095	<0.00095	<0.00095
B-17	B17-8.5-100514	Farallon	10/5/2014	8.5	<0.00093	<0.00093	<0.00093	<0.00093	<0.00093
B-18	B18-3.0-100514	Farallon	10/5/2014	3.0	<0.00093	<0.00093	<0.00093	<0.00093	<0.00093
B-18	B18-6.5-100514	Farallon	10/5/2014	6.5	<0.00081	<0.00081	<0.00081	<0.00081	<0.00081
B-18	B18-7.5-100514	Farallon	10/5/2014	7.5	<0.00093	<0.00093	<0.00093	<0.00093	<0.00093
B-19	B19-1.0-100914	Farallon	10/9/2014	1.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
B-19	B19-5.5-100914	Farallon	10/9/2014	5.5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
B-19	B19-12.2-100914	Farallon	10/9/2014	12.2	<0.0016	<0.0016	<0.0016	<0.0016	<0.0016
B-19	B19-16.8-100914	Farallon	10/9/2014	16.8	<0.00084	<0.00084	<0.00084	<0.00084	<0.00084
MTCA Cleanup Levels for Soil					0.05³	0.03³	160⁵	1,600⁴	0.667⁴

Table 4
Summary of Soil Sample Analytical Results for Select HVOCs
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Depth (feet) ¹	Analytical Results (milligrams per kilogram) ²				
					PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
B-20	B20-1.5	Farallon	10/14/2014	1.5	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
B-20	B20-3.0	Farallon	10/14/2014	3.0	<0.00077	<0.00077	<0.00077	<0.00077	<0.00077
B-20	B20-5.0	Farallon	10/14/2014	5.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
B-20	B20-7.0	Farallon	10/14/2014	7.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
B-20	B20-9.5	Farallon	10/14/2014	9.5	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
B-21	B21-1.0	Farallon	10/14/2014	1.0	0.0056	<0.0010	<0.0010	<0.0010	<0.0010
B-21	B21-4.0	Farallon	10/14/2014	5.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
B-21	B21-7.5	Farallon	10/14/2014	7.5	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
B-21	B21-9.0	Farallon	10/14/2014	9.0	<0.0014	<0.0014	<0.0014	<0.0014	<0.0014
KP1	KP1-050112-8-10	Pacific Crest	5/1/2012	8.0-10.0	<0.00090	<0.00090	<0.00090	<0.00090	<0.00090
KP2	KP2-050112-0.75-4	Pacific Crest	5/1/2012	0.75-4.0	<0.0012	<0.0012	<0.0012	<0.0012	<0.0012
KP3	KP3-050112-4-5	Pacific Crest	5/1/2012	4.0-5.0	<0.0011	<0.0011	<0.0011	<0.0011	<0.0011
KP4	KP4-050112-4.5-8	Pacific Crest	5/1/2012	4.5-8.0	<0.0013	<0.0013	<0.0013	<0.0013	<0.0013
MTCA Cleanup Levels for Soil					0.05³	0.03³	160⁵	1,600⁴	0.667⁴

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the reporting limit listed.

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 8260B.

³Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as revised November 2007.

⁴Washington State Cleanup Levels and Risk Calculations under the Washington State Model Toxics Control Act Cleanup Regulation, Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, <https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx>

⁵Cleanup Levels and Risk Calculations Method B Soil Cleanup Levels for Non-carcinogen, Standard Formula Value.

Farallon = Farallon Consulting, L.L.C.

HVOCs = halogenated volatile organic compounds

PCE = tetrachloroethene

TCE = trichloroethene

Table 5
Summary of Soil Sample Analytical Results for TPH and BTEX
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram)						
					DRO ²	ORO ²	GRO ³	Benzene ⁴	Toluene ⁴	Ethyl-benzene ⁴	Xylenes ⁴
B-3	B3-7.0	Farallon	9/27/2013	7.0	<34	<68	<8.2	<0.020	<0.082	<0.082	<0.164
B-4	B4-7.0	Farallon	9/27/2013	7.0	<34	<67	<8.2	<0.020	<0.082	<0.082	<0.164
B-5	B5-7.0	Farallon	9/27/2013	7.0	<36	<72	<9.2	<0.020	<0.092	<0.092	<0.184
B-6	B6-7.0	Farallon	9/27/2013	7.0	<35	<69	<8.5	<0.020	<0.085	<0.085	<0.170
B-7	B7-11.0	Farallon	9/27/2013	11.0	<34	<69	<8.4	<0.020	<0.084	<0.084	<0.168
B-8	B8-10.0	Farallon	9/27/2013	10.0	<30	<60	<6.7	<0.020	<0.067	<0.067	<0.134
B-13	B13-0.5-120813	Farallon	12/8/2013	0.5	<190	5,600	NA	NA	NA	NA	NA
B-13	B13-4.0-120813	Farallon	12/8/2013	4.0	<28	81	NA	NA	NA	NA	NA
B-13	B13-6.5-120813	Farallon	12/8/2013	6.5	<28	<57	NA	NA	NA	NA	NA
B-14	B14-4.5-120813	Farallon	12/8/2013	4.5	<92	860	NA	NA	NA	NA	NA
B-14	B14-7.5-120813	Farallon	12/8/2013	7.5	<33	<66	NA	NA	NA	NA	NA
B-15	B15-5.0-092314	Farallon	9/23/2014	5.0	<38	<76	NA	NA	NA	NA	NA
B-22	B22-0.5	Farallon	10/14/2014	0.5	<28	140	NA	NA	NA	NA	NA
B-22	B22-3.0	Farallon	10/14/2014	3.0	<34	<69	NA	NA	NA	NA	NA
B-22	B22-5.0	Farallon	10/14/2014	5.0	<38	<76	NA	NA	NA	NA	NA
B23	B23-0.5	Farallon	10/14/2014	0.5	<33	190	NA	NA	NA	NA	NA
B23	B23-3.0	Farallon	10/14/2014	3.0	<32	<63	NA	NA	NA	NA	NA
B23	B23-5.0	Farallon	10/14/2014	5.0	<29	<58	NA	NA	NA	NA	NA
B24	B24-0.5	Farallon	10/14/2014	0.5	<28	<57	NA	NA	NA	NA	NA
B24	B24-3.0	Farallon	10/14/2014	3.0	<35	<71	NA	NA	NA	NA	NA
B24	B24-5.0	Farallon	10/14/2014	5.0	<30	<60	NA	NA	NA	NA	NA
MTCA Method A Cleanup Levels for Soil ⁵					2,000	2,000	100	0.03	7	6	9

Table 5
Summary of Soil Sample Analytical Results for TPH and BTEX
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram)						
					DRO ²	ORO ²	GRO ³	Benzene ⁴	Toluene ⁴	Ethylbenzene ⁴	Xylenes ⁴
B25	B25-0.5	Farallon	10/14/2014	0.5	<57	1100	NA	NA	NA	NA	NA
B25	B25-3.0	Farallon	10/14/2014	3.0	<31	100	NA	NA	NA	NA	NA
B25	B25-5.0	Farallon	10/14/2014	5.0	<34	94	NA	NA	NA	NA	NA
KP1	KP1-050112-8-10	Pacific Crest	5/1/2012	8.0-10	<58	<120	<23	NS	NS	NS	NS
KP2	KP2-050112-0.75-4	Pacific Crest	5/1/2012	0.75-4.0	<70	<140	<28	NS	NS	NS	NS
KP3	KP3-050112-4-5	Pacific Crest	5/1/2012	4.0-5.0	<31	580	<25	NS	NS	NS	NS
KP4	KP4-050112-4.5-8	Pacific Crest	5/1/2012	4.5-8.0	<71	<140	<28	NS	NS	NS	NS
MW-1	MW-1@5'	ABPB Consulting	10/19/2012	5.0	NS	NS	<6	<0.020	<0.060	<0.060	<0.12
MW-1	MW-1@15'	ABPB Consulting	10/19/2012	15.0	NS	NS	<6	<0.020	<0.060	<0.060	<0.12
MW-2	MW-2@5'	ABPB Consulting	10/20/2012	5.0	NS	NS	<5.7	<0.020	<0.057	<0.057	<0.114
MW-2	MW-2@10'	ABPB Consulting	10/20/2012	10.0	NS	NS	<5.4	<0.020	<0.054	<0.054	<0.108
MW-3	MW-3@5'	ABPB Consulting	10/20/2012	5.0	NS	NS	<9.1	<0.020	<0.091	<0.091	<0.182
MW-3	MW-3@10'	ABPB Consulting	10/21/2012	10.0	NS	NS	<9.2	<0.020	<0.092	<0.092	<0.184
MTCA Method A Cleanup Levels for Soil⁵					2,000	2,000	100	0.03	7	6	9

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

-- denotes sample was not analyzed.

¹Depth in feet below ground surface.

²Analyzed by Northwest Method NWTPH-Dx.

³Analyzed by Northwest Method NWTPH-Gx.

⁴Analyzed by U.S. Environmental Protection Agency Method 8021B.

⁵Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended November 2007.

BTEX = benzene, toluene, ethylbenzene, and xylenes

DRO = total petroleum hydrocarbons (TPH) as diesel-range organics

Farallon = Farallon Consulting, L.L.C.

GRO = TPH as gasoline-range organics

NA = Not applicable

ORO = TPH as oil-range organics

Table 6
Summary of Soil Sample Analytical Results for RCRA Metals
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sampled By	Sample Date	Sample Depth (feet) ¹	Analytical Results (milligrams per kilogram) ²							
					Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
B-1	B1-7.0	Farallon	9/27/2013	7	<14	160	<0.71	77	<7.1	<0.36	<14	<1.4
MTCA Cleanup Levels for Soil ³					20	1,250	2	2,000	250	2	NE	NE

NOTES:

Results in **bold** denote concentrations exceeding applicable cleanup levels.

< denotes analyte not detected at or exceeding the laboratory reporting limit listed.

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Methods 6000/6010/7000 Series.

³Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method A Soil Cleanup Levels for Unrestricted Land Uses, Table 740-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended November 2007.

⁴Washington State Department of Ecology Cleanup Levels and Risk Calculations, under the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Standard Method B Formula Values for Soil (Unrestricted Land Use) - Direct Contact (Ingestion Only) and Leaching Pathway, <https://fortress.wa.gov/ecy/clarc/Reporting/ChemicalQuery.aspx>

NE = not established

RCRA = Resource Conservation and Recovery Act

Table 7
Summary of Subslab Soil Gas Analytical Results for Selected HVOCs
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Sample Location	Sample Identification	Sample Date	Analytical Results (micrograms per cubic meter) ¹					
			PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	1,2-Dichloroethane	Vinyl Chloride
Sub-Slab	Soil Gas - 100813	10/8/2013	2000	5.20	<1.2	<6.1	<1.2	<0.40
MTCA Method B Indoor Air Cleanup Levels ²			9.6	0.37				0.28
MTCA Method B Screening Levels for Soil Gas (Residential)			96.2	3.7	160	130	22	2.8
Modified MTCA Method B Screening Levels for Soil Gas (Commercial)			501.7 ^{3,4}	19.4 ^{3,4}				14.7

NOTES:

< denotes analyte not detected at or exceeding the reporting limit listed.

Results in **bold** denotes analyte detected at a concentration greater than the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B Indoor Air Cleanup Levels and/or MTCA Method B Screening Levels.

¹ Analyzed by U.S. Environmental Protection Agency (EPA) Method TO-15.

² Equation 750-2 of Section 750 of Chapter 173-340 of the Washington Administrative Code, Model Toxics Control Act Cleanup Regulation (MTCA):

$$CUL = (RISK * ABW * AT * UCF) / (CPF * BR * ABS * ED * EF)$$

³ Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B Soil Gas Screening Levels for Indoor Air modified for commercial setting. Calculations are shown in Table 10 of this letter report.

⁴ Modified MTCA Method B Soil Gas Screening Levels based on forthcoming changes to be presented in an update to the Cleanup Levels and Risk Calculations (CLARC) database. These changes are based on February 2012 updates to the EPA Integrated Risk Information System (IRIS) database regarding toxicological data for these compounds.

HVOCs = halogenated volatile organic compounds

PCE = tetrachloroethene

TCE = trichloroethene

Table 8
MTCA Method B and Modified Method B Air Cleanup Level and Soil Gas Screening Level Calculations for PCE and TCE
Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington
Farallon PN: 691-018

Carcinogen, Eq. 750-2			PCE	TCE
Parameters		Units	Default MTCA Method B Values	
Carcinogenic Risk	RISK	unitless	0.000001	0.000001
Inhalation Cancer Potency Factor	CPF1	kg-day/mg	0.00091 ²	0.0235 ²
Average Body Weight	ABW	kg	70	70
Averaging Time	AT	years	75	75
Exposure Duration	ED	years	30	30
Exposure Frequency	EF	unitless	1	1
Air Breathing Rate	BR	m ³ /day	20	20
Inhalation Absorption Fraction	ABS1	unitless	1	1
Unit Conversion Factor	UCF	µg/mg	1000	1000

Cleanup Level¹ =

Exposure Duration

Default: 30 years
Modified: 25 year working span

Exposure Frequency

Default: 1
Modified: 365 days per year * 24 hours per day = 8,760 hours/year
250 days per year * 8 hours per day = 2,000 hours/year
2,000/8,760 = **0.23**

Carcinogen, Eq. 750-2			PCE		TCE	
Parameters		Units	Default	Modified ^{3,4}	Default	Modified ^{3,4}
Carcinogenic Risk	RISK	unitless	0.000001	0.000001	0.000001	0.000001
Inhalation Cancer Potency Factor	CPF1	kg-day/mg	0.00091 ²	0.00091 ²	0.0235 ²	0.0235 ²
Average Body Weight	ABW	kg	70	70	70	70
Averaging Time	AT	years	75	75	75	75
Exposure Duration	ED	years	30	25	30	25
Exposure Frequency	EF	unitless	1	0.23	1	0.23
Air Breathing Rate	BR	m ³ /day	20	20	20	20
Inhalation Absorption Fraction	ABS1	unitless	1	1	1	1
Unit Conversion Factor	UCF	µg/mg	1000	1000	1000	1000
MTCA Method B Air Cleanup Level (µg/m ³)			9.62	50.17	0.37	1.94
MTCA Method B Soil Gas Screening Level (µg/m ³)			96.2	501.7	3.7	19.4

NOTES:

¹Equation 750-2 of Section 750 of Chapter 173-340 of the Washington Administrative Code.

²Inhalation Cancer Potency Factor for PCE and TCE as revised by U.S. Environmental Protection Agency in the Integrated Risk Information System (IRIS) database in February 2012.

³Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Method B Soil Gas Screening Levels for Indoor Air modified for commercial setting.

⁴Modified MTCA Method B Soil Gas Screening Levels based on forthcoming changes to be presented in an update to the Cleanup Levels and Risk Calculations (CLARC) database. These changes are based on February 2012 updates to the EPA Integrated Risk Information System (IRIS) database regarding toxicological data for these compounds.

kg = kilograms
m³/day = cubic meters per day
mg/kg-day = milligrams per kilogram per day
µg/mg = micrograms per milligram
µg/m³ = micrograms per cubic meter
MTCA = Washington State Model Toxics Control Act Cleanup Regulation
PCE = tetrachloroethene
TCE = trichloroethene

**ATTACHMENT A
BORING LOGS**

SUMMARY OF SUBSURFACE INVESTIGATION

**Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington**

Farallon PN: 691-018

Log of Boring: B15/MW-5

Page 1 of 1

Client: Hines REIT
Project: Mercer Island Apartments
Location: Mercer Island, WA

Farallon PN: 691-018

Logged By: Dincer Kayhan

Date/Time Started: 9/23/14 @ 0930
Date/Time Completed: 9/23/14 @ 1155
Equipment: Terra Sonic
Drilling Company: Holt
Drilling Foreman: Brian Owens
Drilling Method: Sonic

Sampler Type: PE Bag
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 9.5
Total Boring Depth (ft bgs): 45.0
Total Well Depth (ft bgs): 45.0

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt.	AC							Concrete
5		0.3-10.0': SILT (90% silt, 10% sand), fine sand, gray, moist to wet at 9.5', no odor, cobble at 10.0'.	ML		100		0.2	B15-5.0-092314	X	
10		10.0-20.0': SILT with sand (75% silt, 20% sand, 5% gravel), fine to medium sand, coarse gravel, gray, moist, no odor, lenses of 20% gravel throughout.	ML		100		0.0	B15-10.0-092314		Water Level
15		20.0-22.0': Sandy SILT (50% silt, 30% sand, 20% gravel), fine to coarse sand, coarse gravel, gray, wet, no odor, cobbles present throughout.	ML				0.8	B15-15.0-092314	X	
20		22.0-26.0': Sandy SILT (50% silt, 30% sand, 20% gravel), fine to coarse sand, coarse gravel, gray, wet, no odor, cobbles present throughout.	ML				0.8	B15-20.0-092314		Bentonite
25		26.0-30.0': SILT (90% silt, 10% sand), fine to medium sand, gray, moist to wet, no odor, alternating zones of 30% sand and gravel 0.1-0.3' thick.	ML		100		0.8	B15-25.0-092314	X	
30		30.0-32.0': Silty SAND (70% sand, 30% silt), fine sand, gray, wet, no odor.	SM				0.7	B15-30.0-092314	X	
35		32.0-42.0': Silty SAND (70% sand, 30% silt), fine sand, gray, wet, no odor.	SM		100		0.4	B15-35.0-092314	X	Sand Pack
40		42.0-45.0': SILT (100% silt), gray, moist, no odor.	ML		100		0.7	B15-40.0-092314	X	Screen
45		*Note: Well was installed at a 60 degree downward angle. Depth on boring log represents length of boring. Actual depth of screened interval is approximately 32-39 feet bgs below the dry cleaner suite.					0.3	B15-45.0-092314	X	
50										

Monument Type: 12" Flush Mount
Casing Diameter (inches): 2.0
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 35-45

Well Construction Information

Filter Pack: 10/20 Sand
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: B16

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Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, WA

Farallon PN: 691-018

Logged By: Jerome Chen

Date/Time Started: 10/05/2014 @ 0950 **Sampler Type:** 2' Macrocore
Date/Time Completed: 10/05/2014 @ 1108 **Drive Hammer (lbs.):** Auto
Equipment: PowerProbe 9100P **Depth of Water ATD (ft bgs):** ~2.0'
Drilling Company: ESN NW **Total Boring Depth (ft bgs):** 11.5'
Drilling Foreman: Richard Bates **Total Well Depth (ft bgs):** NA
Drilling Method: Direct Push

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.4': Sandy SILT with gravel (50% silt, 40% sand, 10% gravel), fine to coarse sand, fine gravel, gray, moist, loose, no odor.	ML							
		0.4-1.3': Silty SAND with gravel (60% sand, 20% gravel, 20% silt), fine to coarse sand, fine to coarse gravel, brown, moist, loose, no odor.	SM		65	NA				Concrete
		1.3-2.0': No recovery.								Water Level
		2.0-3.6': Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brown, moist, loose, no odor.	SW-SM		80	NA	0.0	B16-3.0-100514 @ 1013	X	
		3.6-4.0': No recovery.								
		4.0-4.3': Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brown, moist, loose, no odor.	SW-SM							
5		4.3-6.0': SILT (95% silt, 5% sand), fine sand, light gray, moist, dense, no odor.	ML		100	NA				Bentonite
		6.0-7.4': SILT (95% silt, 5% sand), fine sand, light gray, wet, loose, no odor.	ML		80	NA	0.0	B16-6.0-100514 @ 1032	X	
		7.4-8.0': No recovery.								
		8.0-8.7': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brownish gray, wet, loose, no odor.	SW-SM							
		8.7-9.6': Silty SAND with gravel (50% sand, 30% silt, 20% gravel), fine to coarse sand, fine to coarse gravel, dark gray, wet, loose, no odor.	SM		75	NA				
10		9.6-10.0': No recovery.								
		10.0-11.3': Silty SAND (50% sand, 40% silt, 10% gravel), fine to coarse sand, fine gravel, dark gray, moist to wet, loose, no odor.	SM		75	NA	0.0	B16-11.0-100514 @ 1114	X	
		11.3-11.5': SILT (80% silt, 20% sand), fine sand, light gray, moist, dense, no odor.	ML							
		Refusal at 11.5' bgs.						B16-GW-100514 @ 1210	X	

Well Construction Information

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): NA

Filter Pack: NA
Surface Seal: Concrete
Annular Seal: Bentonite
Boring Abandonment: NA

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: B17

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Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, WA

Farallon PN: 691-018

Logged By: Jerome Chen

Date/Time Started: 10/05/2014 @ 1318 **Sampler Type:** 2' Macrocore
Date/Time Completed: 10/05/2014 @ 1350 **Drive Hammer (lbs.):** Auto
Equipment: PowerProbe 9100P **Depth of Water ATD (ft bgs):** ~2.5'
Drilling Company: ESN NW **Total Boring Depth (ft bgs):** 9.0'
Drilling Foreman: Richard Bates **Total Well Depth (ft bgs):** NA
Drilling Method: Direct Push

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-1.2': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brownish, moist, loose, no odor.	SW-SM		60	NA				Concrete
		1.2-2.0': No recovery.								
		2.0-3.6': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, grayish brown, moist, loose, no odor.	SW-SM		80	NA	0.0	B17-3.0-100514 @ 1328	X	Water Level
		3.6-4.0': No recovery.								
		4.0-4.8': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, grayish brown, moist, loose, no odor.	SW-SM							
5		4.8-6.0': SILT (90% silt, 10% sand), fine sand, light gray, moist, dense, no odor.	ML		100	NA				Bentonite
		6.0-8.0': Sandy SILT (70% silt, 20% sand, 10% gravel), fine sand, fine gravel, grayish brown, moist to wet, dense, no odor.	ML		100	NA	0.0	B17-7.0-100514 @ 1344	X	
		8.0-9.0': Sandy SILT (70% silt, 20% sand, 10% gravel), fine sand, fine gravel, grayish brown, wet, very dense, no odor.	ML				0.0	B17-8.5-100514 @ 1356	X	
		Refusal at 9.0' bgs.			50	NA		B17-GW-100514 @ 1435	X	
10										

Monument Type: NA

Casing Diameter (inches): NA

Screen Slot Size (inches): NA

Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA



Log of Boring: B18

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Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, WA

Farallon PN: 691-018

Logged By: Jerome Chen

Date/Time Started: 10/05/2014 @ 1504 **Sampler Type:** 2' Macrocore
Date/Time Completed: 10/05/2014 @ 1538 **Drive Hammer (lbs.):** Auto
Equipment: PowerProbe 9100P **Depth of Water ATD (ft bgs):** ~3.0'
Drilling Company: ESN NW **Total Boring Depth (ft bgs):** 7.5'
Drilling Foreman: Richard Bates **Total Well Depth (ft bgs):** NA
Drilling Method: Direct Push

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.9': Silty SAND with gravel (60% sand, 20% gravel, 20% silt), fine to coarse sand, fine to coarse gravel, light brown, moist, loose, no odor.	SM							
		0.9-2.0': No recovery.			45	NA				Concrete
		2.0-3.5': Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brownish gray, moist, loose, no odor.	SW-SM		75	NA	0.0	B18-3.0-100514 @ 1519	X	Water Level
		3.5-4.0': No recovery.								
		4.0-4.6': Well-graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, brownish gray, moist, loose, no odor.	SW-SM							
5		4.6-5.6': SILT (90% silt, 10% sand), fine sand, light brown, moist, dense, no odor.	ML		100	NA				Bentonite
		5.6-6.0': Silty SAND (60% sand, 30% silt, 10% gravel), fine to coarse sand, fine gravel, brown, moist to wet, loose, no odor.	SM							
		6.0-6.7': Silty SAND (60% sand, 30% silt, 10% gravel), fine to coarse sand, fine gravel, brown, wet, loose, no odor.	SM				0.0	B18-6.5-100514 @ 1542	X	
		6.7-7.5': SILT (90% silt, 10% sand), fine sand, light brown, moist, very dense, no odor.	ML		75	NA				
		Refusal at 7.5' bgs.					0.0	B18-7.5-100514 @ 1551	X	
								B18-GW-100514 @ 1628	X	

Monument Type: NA

Casing Diameter (inches): NA

Screen Slot Size (inches): NA

Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA

Surface Seal: Concrete

Annular Seal: Bentonite

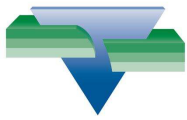
Boring Abandonment: NA

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA



Log of Boring: B19

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Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, WA

Farallon PN: 691-018

Logged By: Jared Kerr

Date/Time Started: 10/09/2014 @ 1545 **Sampler Type:** 5' Macrocore
Date/Time Completed: 10/09/2014 @ 1635 **Drive Hammer (lbs.):** Auto
Equipment: PowerProbe 9500 **Depth of Water ATD (ft bgs):** 6.25
Drilling Company: ESN NW **Total Boring Depth (ft bgs):** 20.0
Drilling Foreman: Cassey McCuland **Total Well Depth (ft bgs):** NA
Drilling Method: Direct Push

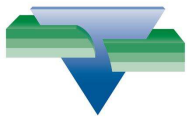
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt	AC							
		0.3-1.1': Well-graded SAND with silt and gravel (50% sand, 40% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, gray, moist, no odor.	SW-SM				3.8	B19-1.0-100914	X	Asphalt
		1.1-3.7': SILT (100% silt), gray, moist, no odor.	ML		74					
		3.7-5.0': No Recovery.								
5		5.0-10.0': SILT (100% silt), light brown, moist, no odor.	ML		100		2.6	B19-5.5-100914	X	Water Level
										Bentonite
10		10.0-15.0': SILT (100% silt) gray, wet, no odor. Sand lenses at 12.2' bgs, 13.1' bgs, and 14.1' bgs.	ML		100		2.5	B19-12.2-100914	X	
15		15.0-15.6': SILT (100% silt), gray, wet, no odor.	ML							
		15.6-16.2': Well-graded SAND with silt and gravel (60% sand, 30% gravel, 10% silt), fine to coarse sand, fine to coarse gravel, gray, wet, no odor.	SW-SM				3.1	B19-16.8-100914	X	
		16.2-17.0': Sandy SILT (70% silt, 20% sand, 10% gravel), fine to coarse sand, fine to coarse gravel, gray, wet, no odor.	ML		100					
		17.0-20.0': SILT (90% silt, 10% sand), gray, moist, no odor.	ML					B19-GW-100914	X	
20										

Well Construction Information

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): 5-20 (Temp)

Filter Pack: NA
Surface Seal: Asphalt
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: B20

Page 1 of 1

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 0915
Date/Time Completed: 10/14/14 @ 0955
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 2' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 8.0
Total Boring Depth (ft bgs): 9.5
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Concrete slab (cored).	CO							Concrete
		0.3-1.9': Silty SAND (70% sand, 25% silt, 5% gravel), fine to coarse sand, fine gravel, brown, moist, no odor, no sheen.	SM		95		0.0	B20-1.5	X	
		1.9-2.0': No recovery.	SM							
		2.0-2.6': Silty SAND (70% sand, 25% silt, 5% gravel), fine to coarse sand, fine gravel, brown, moist, no odor, no sheen.	SM		100		0.0	B20-3.0	X	
		2.6-4.0': Silty SAND (70% sand, 30% silt), fine to coarse sand, gray, moist, no odor, no sheen.	SM							
5		4.0-6.0': SILT (100% silt), greenish-gray, moist, no odor, no sheen.	ML		100		0.0	B20-5.0	X	Bentonite
		6.0-8.0': SILT (100% silt), greenish-gray, moist, no odor, no sheen.	ML		100		0.0	B20-7.0	X	
		8.0-9.2': Poorly-graded SAND (95% sand, 5% silt), fine to medium sand, gray, wet, no odor, no sheen.	SP		75		0.0	B20-101414-GW B20-8.5	X	Water level
		9.2-9.5': Sandy SILT (70% silt, 30% sand), fine sand, gray, wet, no odor, no sheen.	ML				0.0	B20-9.5	X	
10		9.5-10.0': No recovery. Refusal at 9.5' due to dense soil.								

Monument Type: NA

Casing Diameter (inches): NA

Screen Slot Size (inches): NA

Screened Interval (ft bgs): 4.5-9.5' (Temp)

Well Construction Information

Filter Pack: NA

Surface Seal: Concrete

Annular Seal: NA

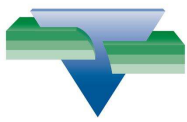
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA



Log of Boring: B21

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

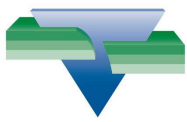
Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 1105
Date/Time Completed: 10/14/14 @ 1150
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 2' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 8.0
Total Boring Depth (ft bgs): 9.0
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.5': Concrete (cored).	CO							Concrete
		0.5-1.0': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM		50		0.0	B21-1.0	X	
		1.0-2.0': No recovery.								
		2.0-4.0': No recovery due to dense soil.			0					
		4.0-5.2': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM		80		0.0	B21-5.0	X	Bentonite
5		5.2-5.5': SILT (100% silt), greenish-gray, moist, no odor, no sheen.	ML							
		5.5-6.0': No recovery.								
		6.0-7.8': SILT (100% silt), greenish-gray, moist, no odor, no sheen.	ML		90		0.0	B21-7.5	X	
		7.8-8.0': No recovery.								
		8.0-8.4': SILT (100% silt), greenish-gray, wet, no odor, no sheen.	ML					B21-101414-GW	X	Water level
		8.4-9.0': Poorly-graded SAND (95% sand, 5% silt), fine sand, gray, wet, no odor, no sheen.	SP		50		0.0	B21-9.0	X	
		9.0-10.0': No recovery. Refusal at 9.0' due to dense soil.								
10										

Monument Type: NA		Well Construction Information		Ground Surface Elevation (ft): NA	
Casing Diameter (inches): NA	Filter Pack: NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA		
Screen Slot Size (inches): NA	Annular Seal: NA	Boring Abandonment: Bentonite	Surveyed Location: X: NA		
Screened Interval (ft bgs): 4.0-9.0' (Temp)			Y: NA		



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Log of Boring: B22

Page 1 of 1

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 1350
Date/Time Completed: 10/14/14 @ 1420
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 4' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.0
Total Boring Depth (ft bgs): 8.0
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt								
		0.3-1.8': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist.								
		1.8-3.8': SILT (100% silt), green, moist, no odor, no sheen.								
		3.8-4.0': No recovery.								
		4.0-5.1': SILT (100% silt), green, wet, no odor, no sheen.								
5		5.1-8.0': SILT (100% silt), brown, wet, no odor, no sheen.								
10										

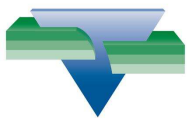
		0.0	B22-0.5	X		Concrete
	95					
		0.0	B22-3.0	X		
		0.0	B22-4.0			Water level
		0.0	B22-5.0	X		
	100					

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA
Surface Seal: Concrete
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: B23

Page 1 of 1

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 1425
Date/Time Completed: 10/14/14 @ 1445
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 4' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.0
Total Boring Depth (ft bgs): 8.0
Total Well Depth (ft bgs): NA

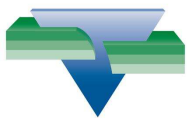
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt	AC							Concrete
		0.3-1.5': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM				0.0	B23-0.5	X	
		1.5-3.2': SILT (100% silt), green, moist, no odor, no sheen.	ML		100					Bentonite
		3.2-4.0': SILT (100% silt), yellowish-brown, moist, no odor, no sheen.	ML				0.0	B23-3.0	X	
		4.0-4.8': SILT (100% silt), green, wet, no odor, no sheen.	ML				0.0	B23-4.0		Water level
5		4.8-7.9': SILT (100% silt), brown, wet, no odor, no sheen.	ML		98		0.0	B23-5.0	X	
		7.9-8.0': No recovery.								
10										

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA
Surface Seal: Concrete
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



Log of Boring: B24

Page 1 of 1

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 1450
Date/Time Completed: 10/14/14 @ 1510
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 4' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.6
Total Boring Depth (ft bgs): 8.0
Total Well Depth (ft bgs): NA

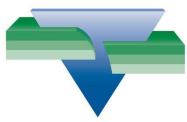
Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt	AC							Concrete
		0.3-1.4': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist, no odor, no sheen.	SM				0.0	B24-0.5	X	
		1.4-4.0': SILT (100% silt), green, moist, no odor, no sheen.	ML		100					Bentonite
							0.0	B24-3.0	X	
		4.0-4.6': SILT (100% silt), green, moist to wet at 4.6', no odor, no sheen.	ML				0.0	B24-4.0		
5		4.6-8.0': SILT (100% silt), yellowish-brown, wet, no odor, no sheen.	ML		100		0.0	B24-5.0	X	Water level
10										

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA
Surface Seal: Concrete
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA



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Log of Boring: B25

Page 1 of 1

Client: Hines
Project: Mercer Island Apartments
Location: Mercer Island, Washington

Farallon PN: 691-018

Logged By: Ken Scott

Date/Time Started: 10/14/14 @ 1515
Date/Time Completed: 10/14/14 @ 1540
Equipment: Kubota LA 302
Drilling Company: ESN
Drilling Foreman: Richard Bates
Drilling Method: Direct Push

Sampler Type: 4' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.5
Total Boring Depth (ft bgs): 8.0
Total Well Depth (ft bgs): NA

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USGS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0-0.3': Asphalt	AC							Concrete
		0.3-1.5': Silty SAND with gravel (60% sand, 25% silt, 15% gravel), fine to coarse sand, fine to coarse gravel, brown, moist.	SM				0.0	B25-0.5	X	
		1.5-4.0': SILT (100% silt), green, moist, no odor, no sheen.	ML		100		0.0	B25-3.0	X	Bentonite
		4.0-6.0': SILT (100% silt), green, moist to wet at 4.5', no odor, no sheen.	ML				0.0	B25-4.0		
5		6.0-8.0': SILT (100% silt), tan, wet, no odor, no sheen.	ML		100		0.0	B25-5.0	X	Water level
10										

Monument Type: NA
Casing Diameter (inches): NA
Screen Slot Size (inches): NA
Screened Interval (ft bgs): NA

Well Construction Information

Filter Pack: NA
Surface Seal: Concrete
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA
Top of Casing Elevation (ft): NA
Surveyed Location: X: NA
Y: NA

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

SUMMARY OF SUBSURFACE INVESTIGATION

Mercer Island Apartments
2885 78th Avenue Southeast
Mercer Island, Washington

Farallon PN: 691-018



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

September 29, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 691-018
Laboratory Reference No. 1409-236

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on September 24, 2014.

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 'DB', followed by a long horizontal stroke.

David Baumeister
Project Manager

Enclosures

Date of Report: September 29, 2014
Samples Submitted: September 24, 2014
Laboratory Reference: 1409-236
Project: 691-018

Case Narrative

Samples were collected on September 23, 2014 and received by the laboratory on September 24, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-5.0-092314					
Laboratory ID:	09-236-01					
Diesel Range Organics	ND	38	NWTPH-Dx	9-26-14	9-26-14	
Lube Oil Range Organics	ND	76	NWTPH-Dx	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0926S1					
Diesel Range Organics	ND	25	NWTPH-Dx	9-26-14	9-26-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	9-26-14	9-26-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	09-271-04									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						92	84	50-150		

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B15-5.0-092314				
Laboratory ID:		09-236-01				
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-5.0-092314					
Laboratory ID:	09-236-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>73-124</i>				

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B15-15.0-092314				
Laboratory ID:		09-236-03				
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-15.0-092314					
Laboratory ID:	09-236-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>73-124</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B15-25.0-092314						
Laboratory ID: 09-236-05						
Dichlorodifluoromethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-25.0-092314					
Laboratory ID:	09-236-05					
1,1,2-Trichloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.00075	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>73-124</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-30.0-092314					
Laboratory ID:	09-236-06					
Dichlorodifluoromethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-30.0-092314					
Laboratory ID:	09-236-06					
1,1,2-Trichloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0035	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.00069	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>73-124</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B15-35.0-092314				
Laboratory ID:		09-236-07				
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-35.0-092314					
Laboratory ID:	09-236-07					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0043	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>108</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>73-124</i>				

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HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B15-40.0-092314				
Laboratory ID:		09-236-08				
Dichlorodifluoromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-40.0-092314					
Laboratory ID:	09-236-08					
1,1,2-Trichloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.00087	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>73-124</i>				

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B15-45.0-092314						
Laboratory ID: 09-236-09						
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B15-45.0-092314					
Laboratory ID:	09-236-09					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>73-124</i>				

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

**HALOGENATED VOLATILES 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:	MB0925S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloromethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromomethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloroethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Iodomethane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
Methylene Chloride	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromochloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chloroform	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Trichloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Dibromomethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	9-25-14	9-25-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0925S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Chlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromoform	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Bromobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	9-25-14	9-25-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	9-25-14	9-25-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>105</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>105</i>	<i>73-124</i>				

Date of Report: September 29, 2014
 Samples Submitted: September 24, 2014
 Laboratory Reference: 1409-236
 Project: 691-018

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0925S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0494	0.0476	0.0500	0.0500	99	95	56-141	4	15	
Benzene	0.0471	0.0464	0.0500	0.0500	94	93	70-121	1	15	
Trichloroethene	0.0501	0.0489	0.0500	0.0500	100	98	74-118	2	15	
Toluene	0.0473	0.0469	0.0500	0.0500	95	94	75-120	1	15	
Chlorobenzene	0.0455	0.0453	0.0500	0.0500	91	91	75-120	0	15	
Surrogate:										
Dibromofluoromethane					99	98	65-129			
Toluene-d8					98	98	77-122			
4-Bromofluorobenzene					96	96	73-124			

Date of Report: September 29, 2014
Samples Submitted: September 24, 2014
Laboratory Reference: 1409-236
Project: 691-018

% MOISTURE

Date Analyzed: 9-25-14

Client ID	Lab ID	% Moisture
B15-5.0-092314	09-236-01	34
B15-15.0-092314	09-236-03	24
B15-25.0-092314	09-236-05	14
B15-30.0-092314	09-236-06	16
B15-35.0-092314	09-236-07	25
B15-40.0-092314	09-236-08	18
B15-45.0-092314	09-236-09	21



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

Page 1 of 4

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

Company:

Fertilization

Project Number:

810-1607

Project Name:

Merrell Island APTS

Project Manager:

Sampled by

Dincer Laythani

[illegible]



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

October 1, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 691-018
Laboratory Reference No. 1409-265

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on September 25, 2014.

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 "DB", followed by a long horizontal flourish.

David Baumeister
Project Manager

Enclosures

Date of Report: October 1, 2014
Samples Submitted: September 25, 2014
Laboratory Reference: 1409-265
Project: 691-018

Case Narrative

Samples were collected on September 25, 2014 and received by the laboratory on September 25, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Date of Report: October 1, 2014
 Samples Submitted: September 25, 2014
 Laboratory Reference: 1409-265
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-092514					
Laboratory ID:	09-265-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloromethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromomethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloroethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Iodomethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Methylene Chloride	ND	2.0	EPA 8260C	9-29-14	9-29-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloroform	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Trichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Dibromomethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-29-14	9-29-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	

Date of Report: October 1, 2014
 Samples Submitted: September 25, 2014
 Laboratory Reference: 1409-265
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-5-092514					
Laboratory ID:	09-265-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromoform	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Bromobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: October 1, 2014
 Samples Submitted: September 25, 2014
 Laboratory Reference: 1409-265
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0929W1						
Dichlorodifluoromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloromethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Vinyl Chloride	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromomethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloroethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Iodomethane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Methylene Chloride	ND	2.0	EPA 8260C	9-29-14	9-29-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromochloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chloroform	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Trichloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Dibromomethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromodichloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	9-29-14	9-29-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	9-29-14	9-29-14	

Date of Report: October 1, 2014
 Samples Submitted: September 25, 2014
 Laboratory Reference: 1409-265
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0929W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Tetrachloroethene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Dibromochloromethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Chlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Bromoform	ND	1.0	EPA 8260C	9-29-14	9-29-14	
Bromobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	9-29-14	9-29-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	9-29-14	9-29-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	9-29-14	9-29-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>71-120</i>				

Date of Report: October 1, 2014
 Samples Submitted: September 25, 2014
 Laboratory Reference: 1409-265
 Project: 691-018

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

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
SPIKE BLANKS										
Laboratory ID:	SB0929W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.4	10.6	10.0	10.0	104	106	63-142	2	17	
Benzene	9.70	10.0	10.0	10.0	97	100	78-125	3	15	
Trichloroethene	8.52	8.62	10.0	10.0	85	86	74-125	1	15	
Toluene	8.98	9.06	10.0	10.0	90	91	80-125	1	15	
Chlorobenzene	8.77	8.90	10.0	10.0	88	89	80-140	1	15	
Surrogate:										
Dibromofluoromethane					101	97	62-122			
Toluene-d8					99	99	70-120			
4-Bromofluorobenzene					98	96	71-120			



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.on-site-env.com					
Company: FARALLON					
Project Number: 691-018					
Project Name: Mercer Island Apartments					
Project Manager: Jennifer Moore					
Sampled by: Ken Buettner					
Turnaround Request (in working days) (Check One) ☐ Same Day ☐ 1 Day ☐ 2 Days ☐ 3 Days ☒ Standard (7 Days) (TPH analysis 5 Days) ☐ _____ (other)					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	
1	MW-5-092514	9/25/14	1435	W	3
					Number of Containers
					NWTPH-HCID
					NWTPH-Gx/BTEX
					NWTPH-Gx
					NWTPH-Dx
					Volatiles 8260C
					X Halogenated Volatiles 8260C
					Semivolatiles 8270D/SIM (with low-level PAHs)
					PAHs 8270D/SIM (low-level)
					PCBs 8082A
					Organochlorine Pesticides 8081B
					Organophosphorus Pesticides 8270D/SIM
					Chlorinated Acid Herbicides 8151A
					Total RCRA Metals
					Total MTCA Metals
					TCLP Metals
					HEM (oil and grease) 1664A
					% Moisture
Signature: Ken Buettner Company: FARALLON Date: 9/25/14 Time: 1605 Comments/Special Instructions:					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Reviewed/Date					



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

October 10, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 691-018
Laboratory Reference No. 1410-060

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on October 6, 2014.

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 "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 10, 2014
Samples Submitted: October 6, 2014
Laboratory Reference: 1410-060
Project: 691-018

Case Narrative

Samples were collected on October 5, 2014 and received by the laboratory on October 6, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B16-3.0-100514						
Laboratory ID: 10-060-01						
Vinyl Chloride	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B16-6.0-100514					
Laboratory ID:	10-060-02					
Vinyl Chloride	ND	0.0013	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.0013	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.0013	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	97	65-129				
<i>Toluene-d8</i>	99	77-122				
<i>4-Bromofluorobenzene</i>	104	73-124				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B16-11.0-100514					
Laboratory ID:	10-060-03					
Vinyl Chloride	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B17-3.0-100514						
Laboratory ID: 10-060-05						
Vinyl Chloride	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00094	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B17-7.0-100514					
Laboratory ID:	10-060-06					
Vinyl Chloride	ND	0.00095	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00095	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00095	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00095	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B17-8.5-100514					
Laboratory ID:	10-060-07					
Vinyl Chloride	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	94	65-129				
<i>Toluene-d8</i>	95	77-122				
<i>4-Bromofluorobenzene</i>	98	73-124				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B18-3.0-100514					
Laboratory ID:	10-060-09					
Vinyl Chloride	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B18-6.5-100514					
Laboratory ID:	10-060-10					
Vinyl Chloride	ND	0.00081	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00081	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00081	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B18-7.5-100514					
Laboratory ID:	10-060-11					
Vinyl Chloride	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.00093	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1008S1					
Vinyl Chloride	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>65-129</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>77-122</i>				
<i>4-Bromofluorobenzene</i>	<i>106</i>	<i>73-124</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					Recovery					
SPIKE BLANKS										
Laboratory ID:	SB1008S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0465	0.0478	0.0500	0.0500	93	96	56-141	3	15	
Benzene	0.0459	0.0464	0.0500	0.0500	92	93	70-121	1	15	
Trichloroethene	0.0486	0.0519	0.0500	0.0500	97	104	74-118	7	15	
Toluene	0.0477	0.0483	0.0500	0.0500	95	97	75-120	1	15	
Chlorobenzene	0.0457	0.0444	0.0500	0.0500	91	89	75-120	3	15	
Surrogate:										
Dibromofluoromethane					97	96	65-129			
Toluene-d8					96	96	77-122			
4-Bromofluorobenzene					101	101	73-124			

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B16-GW-100514						
Laboratory ID: 10-060-04						
Vinyl Chloride	ND	0.20	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>88</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>88</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>71-120</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B17-GW-100514					
Laboratory ID:	10-060-08					
Vinyl Chloride	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Trichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>84</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>87</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>71-120</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B18-GW-100514						
Laboratory ID: 10-060-12						
Vinyl Chloride	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Trichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>87</i>	<i>62-122</i>				
<i>Toluene-d8</i>	<i>91</i>	<i>70-120</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>71-120</i>				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1007W1					
Vinyl Chloride	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Trichloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-7-14	10-7-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	62-122				
<i>Toluene-d8</i>	88	70-120				
<i>4-Bromofluorobenzene</i>	102	71-120				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1008W1					
Vinyl Chloride	ND	0.20	EPA 8260C	10-8-14	10-8-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
Trichloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-8-14	10-8-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	86	62-122				
<i>Toluene-d8</i>	87	70-120				
<i>4-Bromofluorobenzene</i>	106	71-120				

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

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

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limits		Limit	
SPIKE BLANKS										
Laboratory ID:	SB1007W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	10.9	10.4	10.0	10.0	109	104	63-142	5	17	
Benzene	10.3	9.64	10.0	10.0	103	96	78-125	7	15	
Trichloroethene	8.89	8.96	10.0	10.0	89	90	74-125	1	15	
Toluene	9.04	8.73	10.0	10.0	90	87	80-125	3	15	
Chlorobenzene	10.7	10.1	10.0	10.0	107	101	80-140	6	15	
Surrogate:										
Dibromofluoromethane					87	81	62-122			
Toluene-d8					89	86	70-120			
4-Bromofluorobenzene					110	105	71-120			

Date of Report: October 10, 2014
 Samples Submitted: October 6, 2014
 Laboratory Reference: 1410-060
 Project: 691-018

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

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery				RPD		
SPIKE BLANKS											
Laboratory ID:	SB1008W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	9.60	9.51	10.0	10.0	96	95	63-142	1	17		
Benzene	9.31	9.66	10.0	10.0	93	97	78-125	4	15		
Trichloroethene	7.87	8.04	10.0	10.0	79	80	74-125	2	15		
Toluene	8.24	8.55	10.0	10.0	82	86	80-125	4	15		
Chlorobenzene	9.40	9.47	10.0	10.0	94	95	80-140	1	15		
Surrogate:											
Dibromofluoromethane					86	85	62-122				
Toluene-d8					85	88	70-120				
4-Bromofluorobenzene					108	107	71-120				

Date of Report: October 10, 2014
Samples Submitted: October 6, 2014
Laboratory Reference: 1410-060
Project: 691-018

% MOISTURE

Date Analyzed: 10-7-14

Client ID	Lab ID	% Moisture
B16-3.0-100514	10-060-01	9
B16-6.0-100514	10-060-02	17
B16-11.0-100514	10-060-03	12
B17-3.0-100514	10-060-05	12
B17-7.0-100514	10-060-06	13
B17-8.5-100514	10-060-07	12
B18-3.0-100514	10-060-09	10
B18-6.5-100514	10-060-10	12
B18-7.5-100514	10-060-11	13



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



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

October 17, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 691-018
Laboratory Reference No. 1410-125

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on October 10, 2014.

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 "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 17, 2014
Samples Submitted: October 10, 2014
Laboratory Reference: 1410-125
Project: 691-018

Case Narrative

Samples were collected on October 9, 2014 and received by the laboratory on October 10, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles (soil) EPA 8260C Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

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

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B19-1.0-100914				
Laboratory ID:		10-125-01				
Dichlorodifluoromethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Chloromethane	ND	0.0054	EPA 8260C	10-16-14	10-16-14	
Vinyl Chloride	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Bromomethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Chloroethane	ND	0.0054	EPA 8260C	10-16-14	10-16-14	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Iodomethane	ND	0.0054	EPA 8260C	10-16-14	10-16-14	
Methylene Chloride	ND	0.0070	EPA 8260C	10-16-14	10-16-14	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Bromochloromethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Chloroform	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Trichloroethene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Dibromomethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Bromodichloromethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
2-Chloroethyl Vinyl Ether	ND	0.0076	EPA 8260C	10-16-14	10-16-14	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
(trans) 1,3-Dichloropropene	ND	0.0014	EPA 8260C	10-16-14	10-16-14	

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B19-1.0-100914					
Laboratory ID:	10-125-01					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,3-Dichloropropane	ND	0.0014	EPA 8260C	10-16-14	10-16-14	
Dibromochloromethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Chlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Bromoform	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Bromobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,1,2,2-Tetrachloroethane	ND	0.0014	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichloropropane	ND	0.0015	EPA 8260C	10-16-14	10-16-14	
2-Chlorotoluene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
4-Chlorotoluene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	10-16-14	10-16-14	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	10-16-14	10-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>79-126</i>				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

HALOGENATED VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B19-5.5-100914				
Laboratory ID:		10-125-02				
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Chloromethane	ND	0.0063	EPA 8260C	10-16-14	10-16-14	
Vinyl Chloride	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Bromomethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Chloroethane	ND	0.0063	EPA 8260C	10-16-14	10-16-14	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Iodomethane	ND	0.0063	EPA 8260C	10-16-14	10-16-14	
Methylene Chloride	ND	0.0080	EPA 8260C	10-16-14	10-16-14	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Bromochloromethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Chloroform	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Trichloroethene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Dibromomethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Bromodichloromethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
2-Chloroethyl Vinyl Ether	ND	0.0088	EPA 8260C	10-16-14	10-16-14	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
(trans) 1,3-Dichloropropene	ND	0.0016	EPA 8260C	10-16-14	10-16-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B19-5.5-100914					
Laboratory ID:	10-125-02					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Tetrachloroethene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,3-Dichloropropane	ND	0.0016	EPA 8260C	10-16-14	10-16-14	
Dibromochloromethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Chlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Bromoform	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Bromobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,1,2,2-Tetrachloroethane	ND	0.0016	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichloropropane	ND	0.0018	EPA 8260C	10-16-14	10-16-14	
2-Chlorotoluene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
4-Chlorotoluene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	10-16-14	10-16-14	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>115</i>	<i>79-126</i>				

Date of Report: October 17, 2014
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 Laboratory Reference: 1410-125
 Project: 691-018

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B19-12.2-100914				
Laboratory ID:		10-125-03				
Dichlorodifluoromethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Chloromethane	ND	0.0079	EPA 8260C	10-15-14	10-16-14	
Vinyl Chloride	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Bromomethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Chloroethane	ND	0.0079	EPA 8260C	10-15-14	10-16-14	
Trichlorofluoromethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloroethene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Iodomethane	ND	0.0079	EPA 8260C	10-15-14	10-16-14	
Methylene Chloride	ND	0.010	EPA 8260C	10-15-14	10-16-14	
(trans) 1,2-Dichloroethene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloroethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
2,2-Dichloropropane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
(cis) 1,2-Dichloroethene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Bromochloromethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Chloroform	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1,1-Trichloroethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Carbon Tetrachloride	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloropropene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,2-Dichloroethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Trichloroethene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,2-Dichloropropane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Dibromomethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Bromodichloromethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
2-Chloroethyl Vinyl Ether	ND	0.011	EPA 8260C	10-15-14	10-16-14	
(cis) 1,3-Dichloropropene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
(trans) 1,3-Dichloropropene	ND	0.0021	EPA 8260C	10-15-14	10-16-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B19-12.2-100914					
Laboratory ID:	10-125-03					
1,1,2-Trichloroethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Tetrachloroethene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,3-Dichloropropane	ND	0.0021	EPA 8260C	10-15-14	10-16-14	
Dibromochloromethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,2-Dibromoethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Chlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1,1,2-Tetrachloroethane	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Bromoform	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Bromobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,1,2,2-Tetrachloroethane	ND	0.0021	EPA 8260C	10-15-14	10-16-14	
1,2,3-Trichloropropane	ND	0.0022	EPA 8260C	10-15-14	10-16-14	
2-Chlorotoluene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
4-Chlorotoluene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,3-Dichlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,4-Dichlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,2-Dichlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
1,2-Dibromo-3-chloropropane	ND	0.0079	EPA 8260C	10-15-14	10-16-14	
1,2,4-Trichlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
Hexachlorobutadiene	ND	0.0079	EPA 8260C	10-15-14	10-16-14	
1,2,3-Trichlorobenzene	ND	0.0016	EPA 8260C	10-15-14	10-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>79-126</i>				

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		B19-16.8-100914				
Laboratory ID:		10-125-04				
Dichlorodifluoromethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Chloromethane	ND	0.0042	EPA 8260C	10-15-14	10-16-14	
Vinyl Chloride	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Bromomethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Chloroethane	ND	0.0042	EPA 8260C	10-15-14	10-16-14	
Trichlorofluoromethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloroethene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Iodomethane	ND	0.0042	EPA 8260C	10-15-14	10-16-14	
Methylene Chloride	ND	0.0054	EPA 8260C	10-15-14	10-16-14	
(trans) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloroethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
2,2-Dichloropropane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
(cis) 1,2-Dichloroethene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Bromochloromethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Chloroform	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1,1-Trichloroethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Carbon Tetrachloride	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1-Dichloropropene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,2-Dichloroethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Trichloroethene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,2-Dichloropropane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Dibromomethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Bromodichloromethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
2-Chloroethyl Vinyl Ether	ND	0.0059	EPA 8260C	10-15-14	10-16-14	
(cis) 1,3-Dichloropropene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	10-15-14	10-16-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B19-16.8-100914					
Laboratory ID:	10-125-04					
1,1,2-Trichloroethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Tetrachloroethene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	10-15-14	10-16-14	
Dibromochloromethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,2-Dibromoethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Chlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1,1,2-Tetrachloroethane	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Bromoform	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Bromobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	10-15-14	10-16-14	
1,2,3-Trichloropropane	ND	0.0012	EPA 8260C	10-15-14	10-16-14	
2-Chlorotoluene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
4-Chlorotoluene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,3-Dichlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,4-Dichlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,2-Dichlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
1,2-Dibromo-3-chloropropane	ND	0.0042	EPA 8260C	10-15-14	10-16-14	
1,2,4-Trichlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
Hexachlorobutadiene	ND	0.0042	EPA 8260C	10-15-14	10-16-14	
1,2,3-Trichlorobenzene	ND	0.00084	EPA 8260C	10-15-14	10-16-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>92</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>94</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>79-126</i>				

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**HALOGENATED VOLATILES EPA 8260C
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1015S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	0.0073	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-15-14	10-15-14	

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1015S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-15-14	10-15-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	101	76-131				
Toluene-d8	103	82-129				
4-Bromofluorobenzene	117	79-126				

Date of Report: October 17, 2014
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1016S1					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Chloromethane	ND	0.0050	EPA 8260C	10-16-14	10-16-14	
Vinyl Chloride	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Bromomethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Chloroethane	ND	0.0050	EPA 8260C	10-16-14	10-16-14	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Iodomethane	ND	0.0050	EPA 8260C	10-16-14	10-16-14	
Methylene Chloride	ND	0.0064	EPA 8260C	10-16-14	10-16-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Bromochloromethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Chloroform	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Dibromomethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Bromodichloromethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
2-Chloroethyl Vinyl Ether	ND	0.0070	EPA 8260C	10-16-14	10-16-14	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	10-16-14	10-16-14	

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 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1016S1					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
Dibromochloromethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Chlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Bromoform	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Bromobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichloropropane	ND	0.0014	EPA 8260C	10-16-14	10-16-14	
2-Chlorotoluene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
4-Chlorotoluene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	10-16-14	10-16-14	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	10-16-14	10-16-14	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	10-16-14	10-16-14	
Surrogate:	Percent Recovery	Control Limits				
Dibromofluoromethane	94	76-131				
Toluene-d8	97	82-129				
4-Bromofluorobenzene	114	79-126				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					Recovery					
SPIKE BLANKS										
Laboratory ID:	SB1015S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0531	0.0551	0.0500	0.0500	106	110	66-129	4	15	
Benzene	0.0496	0.0513	0.0500	0.0500	99	103	71-123	3	15	
Trichloroethene	0.0565	0.0570	0.0500	0.0500	113	114	75-115	1	15	
Toluene	0.0522	0.0536	0.0500	0.0500	104	107	75-120	3	15	
Chlorobenzene	0.0465	0.0459	0.0500	0.0500	93	92	75-121	1	15	
Surrogate:										
Dibromofluoromethane					92	94	76-131			
Toluene-d8					93	97	82-129			
4-Bromofluorobenzene					106	107	79-126			

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery						
SPIKE BLANKS											
Laboratory ID:	SB1016S1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	0.0488	0.0503	0.0500	0.0500	98	101	66-129	3		15	
Benzene	0.0471	0.0484	0.0500	0.0500	94	97	71-123	3		15	
Trichloroethene	0.0536	0.0553	0.0500	0.0500	107	111	75-115	3		15	
Toluene	0.0500	0.0508	0.0500	0.0500	100	102	75-120	2		15	
Chlorobenzene	0.0448	0.0449	0.0500	0.0500	90	90	75-121	0		15	
Surrogate:											
Dibromofluoromethane					91	90	76-131				
Toluene-d8					94	94	82-129				
4-Bromofluorobenzene					106	110	79-126				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
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HALOGENATED VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B19-GW-100914						
Laboratory ID: 10-125-05						
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
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HALOGENATED VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B19-GW-100914					
Laboratory ID:	10-125-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	79-122				
<i>Toluene-d8</i>	99	80-120				
<i>4-Bromofluorobenzene</i>	95	80-120				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Page 1 of 2

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1015W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloromethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Vinyl Chloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Trichlorofluoromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Iodomethane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Methylene Chloride	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chloroform	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Carbon Tetrachloride	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Trichloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromomethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromodichloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	10-15-14	10-15-14	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	10-15-14	10-15-14	

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB1015W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Dibromochloromethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromoethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Chlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Bromoform	ND	1.0	EPA 8260C	10-15-14	10-15-14	
Bromobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	10-15-14	10-15-14	
2-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
4-Chlorotoluene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	10-15-14	10-15-14	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
Hexachlorobutadiene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	10-15-14	10-15-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>79-122</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>80-120</i>				

Date of Report: October 17, 2014
 Samples Submitted: October 10, 2014
 Laboratory Reference: 1410-125
 Project: 691-018

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

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	Flags
					Recovery				RPD	
SPIKE BLANKS										
Laboratory ID:	SB1015W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	11.0	11.1	10.0	10.0	110	111	64-138	1	16	
Benzene	10.2	10.3	10.0	10.0	102	103	76-125	1	14	
Trichloroethene	8.97	9.05	10.0	10.0	90	91	75-125	1	16	
Toluene	10.3	10.2	10.0	10.0	103	102	75-125	1	15	
Chlorobenzene	9.67	9.82	10.0	10.0	97	98	80-140	2	15	
Surrogate:										
Dibromofluoromethane					99	102	79-122			
Toluene-d8					99	99	80-120			
4-Bromofluorobenzene					98	97	80-120			

Date of Report: October 17, 2014
Samples Submitted: October 10, 2014
Laboratory Reference: 1410-125
Project: 691-018

% MOISTURE

Date Analyzed: 10-15-14

Client ID	Lab ID	% Moisture
B19-1.0-100914	10-125-01	17
B19-5.5-100914	10-125-02	34
B19-12.2-100914	10-125-03	37
B19-16.8-100914	10-125-04	12



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



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

October 23, 2014

Jennifer Moore
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 691-018
Laboratory Reference No. 1410-187

Dear Jennifer:

Enclosed are the analytical results and associated quality control data for samples submitted on October 15, 2014.

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 "DB", with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures

Date of Report: October 23, 2014
Samples Submitted: October 15, 2014
Laboratory Reference: 1410-187
Project: 691-018

Case Narrative

Samples were collected on October 14, 2014 and received by the laboratory on October 15, 2014. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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.

Halogenated Volatiles EPA 8260C (soil) Analysis

Per EPA Method 5035A, samples were received by the laboratory in pre-weighed 40 mL VOA vials within 48 hours of sample collection. They were stored in a freezer at between -7°C and -20°C until extraction or analysis.

Method 5035A states that for low-level VOC analysis the purge-and-trap system employed must be capable of agitating the sealed sample during the purging process. The purge-and-trap system that OnSite Environmental utilizes for the analysis of low-level VOCs has a stir motor that spins a magnetic stir bar within the sample thereby agitating the sample and providing more efficient purging. The VOAs provided for sample B21-9.0 did not contain stir bars. Per client's request, one of these VOAs was used for the low-level VOC analysis.

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

Halogenated Volatiles EPA 8260C (water) Analysis

Due to the levels of sediment present in the VOAs provided for sample B20-101414-GW, the aqueous layers from two VOAs were combined to perform the requested analysis. Some loss of volatiles may have occurred.

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

Date of Report: October 23, 2014
 Samples Submitted: October 15, 2014
 Laboratory Reference: 1410-187
 Project: 691-018

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B22-0.5					
Laboratory ID:	10-187-13					
Diesel Range Organics	ND	28	NWTPH-Dx	10-20-14	10-20-14	
Lube Oil	140	56	NWTPH-Dx	10-20-14	10-20-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				
Client ID:	B22-3.0					
Laboratory ID:	10-187-14					
Diesel Range Organics	ND	34	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil Range Organics	ND	69	NWTPH-Dx	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	B22-5.0					
Laboratory ID:	10-187-16					
Diesel Range Organics	ND	38	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil Range Organics	ND	76	NWTPH-Dx	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	78	50-150				
Client ID:	B23-0.5					
Laboratory ID:	10-187-17					
Diesel Range Organics	ND	33	NWTPH-Dx	10-20-14	10-20-14	U1
Lube Oil Range Organics	190	65	NWTPH-Dx	10-20-14	10-20-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	65	50-150				
Client ID:	B23-3.0					
Laboratory ID:	10-187-18					
Diesel Range Organics	ND	32	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil Range Organics	ND	63	NWTPH-Dx	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	83	50-150				
Client ID:	B23-5.0					
Laboratory ID:	10-187-20					
Diesel Range Organics	ND	29	NWTPH-Dx	10-20-14	10-20-14	
Lube Oil Range Organics	ND	58	NWTPH-Dx	10-20-14	10-20-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				

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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B24-0.5					
Laboratory ID:	10-187-21					
Diesel Range Organics	ND	28	NWTPH-Dx	10-20-14	10-20-14	
Lube Oil Range Organics	ND	57	NWTPH-Dx	10-20-14	10-20-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	77	50-150				
Client ID:	B24-3.0					
Laboratory ID:	10-187-22					
Diesel Range Organics	ND	35	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil Range Organics	ND	71	NWTPH-Dx	10-21-14	10-21-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	84	50-150				
Client ID:	B24-5.0					
Laboratory ID:	10-187-24					
Diesel Range Organics	ND	30	NWTPH-Dx	10-20-14	10-20-14	
Lube Oil Range Organics	ND	60	NWTPH-Dx	10-20-14	10-20-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	75	50-150				
Client ID:	B25-0.5					
Laboratory ID:	10-187-25					
Diesel Range Organics	ND	57	NWTPH-Dx	10-20-14	10-20-14	U1
Lube Oil	1100	55	NWTPH-Dx	10-20-14	10-20-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	74	50-150				
Client ID:	B25-3.0					
Laboratory ID:	10-187-26					
Diesel Range Organics	ND	31	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil	100	62	NWTPH-Dx	10-21-14	10-21-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	85	50-150				
Client ID:	B25-5.0					
Laboratory ID:	10-187-28					
Diesel Range Organics	ND	34	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil	94	68	NWTPH-Dx	10-21-14	10-21-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	81	50-150				

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**NWTPH-Dx
QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB1020S1					
Diesel Range Organics	ND	25	NWTPH-Dx	10-20-14	10-20-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-20-14	10-20-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	89	50-150				
Laboratory ID:	MB1021S2					
Diesel Range Organics	ND	25	NWTPH-Dx	10-21-14	10-21-14	
Lube Oil Range Organics	ND	50	NWTPH-Dx	10-21-14	10-21-14	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	86	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	10-187-21									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						77	90	50-150		
Laboratory ID:	10-187-28									
	ORIG	DUP								
Diesel Range	ND	ND	NA	NA		NA	NA	NA	NA	
Lube Oil	68.8	ND	NA	NA		NA	NA	NA	NA	
Surrogate:										
o-Terphenyl						81	91	50-150		

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B20-1.5					
Laboratory ID:	10-187-01					
Vinyl Chloride	ND	0.0013	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0013	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0013	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>104</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B20-3.0					
Laboratory ID:	10-187-02					
Vinyl Chloride	ND	0.00077	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.00077	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.00077	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.00077	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>113</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B20-5.0					
Laboratory ID:	10-187-03					
Vinyl Chloride	ND	0.0011	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0011	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0011	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>111</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>110</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B20-7.0					
Laboratory ID:	10-187-04					
Vinyl Chloride	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>109</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B20-9.5					
Laboratory ID:	10-187-06					
Vinyl Chloride	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-1.0					
Laboratory ID:	10-187-08					
Vinyl Chloride	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	0.0056	0.0010	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>90</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-5.0					
Laboratory ID:	10-187-09					
Vinyl Chloride	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0012	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>107</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>102</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-7.5					
Laboratory ID:	10-187-10					
Vinyl Chloride	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>79-126</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-9.0					
Laboratory ID:	10-187-11					
Vinyl Chloride	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0014	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>79-126</i>				

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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1021S1					
Vinyl Chloride	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
Trichloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
Tetrachloroethene	ND	0.0010	EPA 8260C	10-21-14	10-21-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>76-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>82-129</i>				
<i>4-Bromofluorobenzene</i>	<i>112</i>	<i>79-126</i>				

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

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits	RPD	RPD Limit	Flags
					Recovery					
SPIKE BLANKS										
Laboratory ID:	SB1021S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0487	0.0508	0.0500	0.0500	97	102	66-129	4	15	
Benzene	0.0498	0.0512	0.0500	0.0500	100	102	71-123	3	15	
Trichloroethene	0.0503	0.0503	0.0500	0.0500	101	101	75-115	0	15	
Toluene	0.0492	0.0497	0.0500	0.0500	98	99	75-120	1	15	
Chlorobenzene	0.0475	0.0478	0.0500	0.0500	95	96	75-121	1	15	
Surrogate:										
Dibromofluoromethane					98	102	76-131			
Toluene-d8					98	100	82-129			
4-Bromofluorobenzene					98	99	79-126			

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HALOGENATED VOLATILES EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: B20-101414-GW						
Laboratory ID: 10-187-07						
Vinyl Chloride	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Trichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Tetrachloroethene	0.37	0.20	EPA 8260C	10-17-14	10-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>79-122</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>80-120</i>				

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HALOGENATED VOLATILES EPA 8260C

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	B21-101414-GW					
Laboratory ID:	10-187-12					
Vinyl Chloride	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Trichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>79-122</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>80-120</i>				

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**HALOGENATED VOLATILES EPA 8260C
 METHOD BLANK QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID:	MB1017W1					
Vinyl Chloride	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Trichloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
Tetrachloroethene	ND	0.20	EPA 8260C	10-17-14	10-17-14	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>104</i>	<i>79-122</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>80-120</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>80-120</i>				

Date of Report: October 23, 2014
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**HALOGENATED VOLATILES EPA 8260C
 SB/SBD QUALITY CONTROL**

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery Limits		RPD	RPD Limit	Flags
					Recovery						
SPIKE BLANKS											
Laboratory ID:	SB1017W1										
	SB	SBD	SB	SBD	SB	SBD					
1,1-Dichloroethene	11.3	10.4	10.0	10.0	113	104	64-138	8		16	
Benzene	10.6	10.6	10.0	10.0	106	106	76-125	0		14	
Trichloroethene	9.34	8.90	10.0	10.0	93	89	75-125	5		16	
Toluene	10.8	10.2	10.0	10.0	108	102	75-125	6		15	
Chlorobenzene	10.2	9.62	10.0	10.0	102	96	80-140	6		15	
Surrogate:											
Dibromofluoromethane					104	101	79-122				
Toluene-d8					100	101	80-120				
4-Bromofluorobenzene					97	96	80-120				

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% MOISTURE

Date Analyzed: 10-20-14

Client ID	Lab ID	% Moisture
B20-1.5	10-187-01	7
B20-3.0	10-187-02	9
B20-5.0	10-187-03	32
B20-7.0	10-187-04	22
B20-9.5	10-187-06	12
B21-1.0	10-187-08	11
B21-5.0	10-187-09	30
B21-7.5	10-187-10	32
B21-9.0	10-187-11	33
B22-0.5	10-187-13	10
B22-3.0	10-187-14	27
B22-5.0	10-187-16	34
B23-0.5	10-187-17	23
B23-3.0	10-187-18	21
B23-5.0	10-187-20	13
B24-0.5	10-187-21	12
B24-3.0	10-187-22	29
B24-5.0	10-187-24	16
B25-0.5	10-187-25	9
B25-3.0	10-187-26	19
B25-5.0	10-187-28	27



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

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% Moisture

10-187

☐ 3 Days

(other)

1	B20-1.5		920	5	5	(X)
2	B20-3.0		925	5	5	(X)
3	B20-5.0		930	5	5	(X)
4	B20-7.0		935	5	5	(X)
5	B20-8.5		940	5	5	(X)
6	B20-9.5		950	5	5	(X)
7	B20-10/14(GW)		1015	N	M	(X)
8	B21-1.0		1110	5	5	(X)
9	B21-5.0		1120	5	5	(X)
10	B21-7.5		1130	5	5	(X)

Comments/Special Instructions

14.16 Answers

Amulius's law

}

(v) Apply

100

Chromatograms with final report ☐

Electronic Data Deliverables (EDDs)

Chromatograms with final report ☐



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