



October 1, 2018

Mr. Brad Machat
Lennar Multifamily Communities, LLC
1325 4th Avenue, Suite 1700
Seattle, Washington 98101

BY EMAIL ONLY

**RE: SUMMARY OF SUBSURFACE INVESTIGATION
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70TH STREET
REDMOND, WASHINGTON
FARALLON PN: 1198-005**

Dear Mr. Machat:

Farallon Consulting, L.L.C. (Farallon) has prepared this letter report to provide a summary of the subsurface investigation conducted on behalf of Lennar Multifamily Communities, LLC (Lennar) for the property at 17611 Northeast 70th Street in Redmond, Washington (herein referred to as the Site) (Figures 1 and 2). The subsurface investigation was conducted as part of Lennar's due diligence related to the acquisition and planned redevelopment of the Site. The purpose of the subsurface investigation was to evaluate the suspected and confirmed releases of hazardous substances on the Site from current and/or historical operations at the Site, and/or the release and potential migration of hazardous substances from adjacent properties onto the Site, which were identified as recognized environmental conditions for the Site in the *Phase I Environmental Site Assessment Report, Marymoor Apartments Property, 17611 Northeast 70th Street, Redmond, Washington* dated May 4, 2018, prepared by Farallon for Lennar (Phase I ESA Report).

The scope of work for the subsurface investigation was developed based on Farallon's knowledge of the Site vicinity, discussions with Lennar, previous investigations and remedial actions conducted at the Site by others, and the results of the Phase I ESA conducted at the Site by Farallon in May 2018. The subsurface investigation was conducted at the Site by Farallon between January and April 2018. The main elements of the subsurface investigation included advancement of borings and sampling of soil and/or reconnaissance groundwater, installation and sampling of groundwater monitoring wells, and laboratory analysis of soil and groundwater samples. The scope of the subsurface investigation is sufficient to support selection of a final cleanup alternative, pursuant to the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), to be conducted during the planned redevelopment of the Site.

This letter report includes a summary of the Site background; a description of the geology and hydrogeology of the Site and vicinity; a summary of the activities conducted for the subsurface investigation, including sampling, analysis, and management of investigation-derived waste; a summary of the results from the subsurface investigation; and Farallon's conclusions and recommendations.



SITE DESCRIPTION

The Site is comprised of King County Parcel Nos. 1225059095, 1225059152, and 1225059229, which total 4.88 acres of land. The Site is developed with four buildings: a 2,800-square-foot manufacturing building, a 3,250-square-foot service repair garage, and two small office buildings. The remaining portions of the Site are used for storage of equipment, trucks, and machinery. Farallon understands that the Site currently is occupied by a drilling contractor, a tire distributor, and a construction company. It is unknown if other tenants occupy the Site.

Adjacent properties at the time of a site reconnaissance performed by Farallon in 2018 included an office building to the north, an office and retail building to the west, Northeast 8th Street followed by office and retail buildings to the south, 108th Avenue Northeast followed by a bank building to the east, and a church to the southeast.

PREVIOUS ENVIRONMENTAL INVESTIGATIONS

Previous environmental investigations have been conducted at the Site by others since 1994. A summary of each investigation is presented below.

1994 SUBSURFACE INVESTIGATION

According to the *Phase II Environmental Site Assessment, Washington Diesel Services, 17611 NE 70th Street, Redmond, Washington* dated September 1994, prepared by AGRA Earth & Environmental, Inc. (AGRA) (Phase II ESA Report), the Site formerly was owned by Washington Diesel Services, which used the Site for engine repair, cleaning/degreasing, and heavy equipment repair and storage. Reportedly, a concrete steam cleaning pit was attached to a drain field and was used until the piping clogged, at which time steam cleaning was conducted on the ground. One waste oil underground storage tank (UST) reportedly was removed from the Site during the Phase II ESA. A waste oil aboveground storage tank (AST) was in use at the Site during the Phase II ESA. Additional tenants at the time of the Phase II ESA included a utility installation company, an impound lot for a towing company, and a brick manufacturing plant. Historical Site features are shown on Figure 2.

In January 1994, AGRA excavated test pits TP-1 through TP-6 and advanced boring B-1 at the Site (Figure 2). According to the Phase II ESA Report, total petroleum hydrocarbons (TPH) as diesel-range organics (DRO) and as oil-range organics (ORO) were detected at concentrations exceeding the 1991 MTCA cleanup levels in soil samples collected at the Site. TPH as gasoline-range organics (GRO); benzene, toluene, ethylbenzene, and total xylenes (BTEX); halogenated volatile organic compounds (HVOCs); and select metals (i.e., cadmium and lead) were reported non-detect at the laboratory practical quantitation limit (PQL) in soil samples collected. Analytical data for test pits TP-1 through TP-6 and boring B-1 were not provided in the Phase II ESA Report.

In August 1994, AGRA installed monitoring wells MW-1 through MW-3 to evaluate groundwater conditions proximate to the drain field, the former waste oil UST, and the waste oil AST (Figure 2). GRO, DRO, ORO, BTEX, and HVOCs were reported non-detect at the laboratory PQL in soil and groundwater samples collected from the monitoring wells.



2012 REMEDIAL ACTION

According to the letter regarding Environmental Consultation Services and Remedial Excavation Observations, Blackstone Facility, 6820 – 176th Avenue NE, Redmond, Washington dated March 14, 2012, from Mr. Charles R. Lie of Terra Associates, Inc. to Mr. Tom Wunderlich (Remedial Action Report), approximately 20 gallons of tire fill foam was spilled on the eastern Site boundary prior to December 2011. Analytical results of performance soil samples collected from the spill area confirmed a release of DRO and ORO to soil. The highest concentration of DRO detected was 81,000 milligrams per kilogram (mg/kg), and the highest concentration of ORO detected was 130,000 mg/kg, exceeding applicable MTCA Method A cleanup levels. In February 2013, approximately 34.23 tons of impacted soil was excavated to an approximate depth of 18 inches below ground surface (bgs). Two confirmation soil samples were collected from the bottom of the excavation. Laboratory analytical results for the soil samples were not provided in the Remedial Action Report. The location of the excavation is shown on Figure 2. In April 2012, the Washington State Department of Ecology (Ecology) issued a No Further Action determination through the initial investigation process.

GEOLOGY/HYDROGEOLOGY

The Puget Sound region is underlain by Quaternary sediments deposited by multiple glacial episodes. Deposition occurred during glacial advances and retreats, which created the existing subsurface conditions. The regional sediments consist primarily of interlayered and/or sequential deposits of alluvial clays, silts, and sands that typically are situated over deposits of glacial till that consist of silty sand to sandy silt with gravel. Outwash sediments consisting of sands, silts, clays, and gravels were deposited by rivers, streams, and post-glacial lakes during the glacial retreats and have been largely over-consolidated by the overriding ice sheets.

Farallon observed and logged soil conditions encountered during the subsurface investigation. Boring logs are provided in Attachment A. The general Site stratigraphy consists of sand with gravel to depths of approximately 30 feet bgs.

Farallon observed shallow groundwater at depths ranging from approximately 16 to 19 feet bgs. Synoptic depth to groundwater measurements from the monitoring wells on the Site and corresponding calculated groundwater elevations are provided in Table 1. Based on groundwater contours developed using the synoptic measurements, the interpreted groundwater flow direction of the shallow groundwater-bearing zone is generally to the southwest (Figure 3).

SUBSURFACE INVESTIGATION

The subsurface investigation was conducted to evaluate potential and confirmed releases of hazardous substances to the subsurface on the Site. The scope of work for the subsurface investigation was developed based on Farallon's knowledge of the Site vicinity, discussions with Lennar, previous investigations and remedial actions conducted at the Site by others, and the results of the Phase I ESA conducted at the Site by Farallon in May 2018. The constituents of potential concern (COPCs) identified for the Site subsurface investigation were GRO, DRO, and



ORO; BTEX; HVOCs; and metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver).

Subsurface investigation elements included the following:

- Advancement of six geotechnical borings and soil sampling to a maximum depth of 30 feet bgs;
- Advancement of 12 borings and soil sampling to a maximum depth of 25 feet bgs;
- Collection of reconnaissance groundwater samples from select borings;
- Installation and development of four monitoring wells;
- Redevelopment of three existing monitoring wells; and
- Collection of depth to water measurements and groundwater sampling from seven monitoring wells.

PanGEO, Inc. of Seattle, Washington conducted a geotechnical investigation at the Site on January 22 and 23, 2018. Holocene Drilling, Inc. of Puyallup, Washington advanced geotechnical borings PG-1 through PG-6 to a maximum depth of 30 feet bgs using a hollow-stem auger drill rig. Cascade Drilling Inc. of Woodinville, Washington advanced borings FB-1 through FB-6 and FMW-4 through FMW-7 to a maximum depth of 25 feet bgs between March 20 and 22, 2018 using a direct-push drill rig. Sampling locations are identified on Figure 2.

SOIL SAMPLING

A Farallon Geologist observed and logged subsurface conditions and retained soil samples from selected intervals based on field indications of potential contamination for laboratory analysis. The information recorded for each boring log included soil types encountered, visual and olfactory observations (e.g., staining, odor, etc.), and volatile organic vapor concentrations as measured using a photoionization detector. The completed boring logs are provided in Attachment A.

Soil samples were collected and transferred directly into laboratory-prepared glass sample containers. Volatile organic compound (VOC) samples were fitted with a Teflon-lined lid in accordance with U.S. Environmental Protection Agency (EPA) Method 5035A for sampling of VOCs. Soil samples collected from the borings were placed on ice in a cooler under standard chain-of-custody procedures and delivered to OnSite Environmental Inc. of Redmond, Washington (OnSite) for analysis.

RECONNAISSANCE GROUNDWATER SAMPLING

Reconnaissance groundwater samples were collected from borings FB-1, FB-3 through FB-6, and FMW-4 through FMW-7. Groundwater was purged using a peristaltic pump from a temporary 5-foot polyvinyl chloride screen interval, until the groundwater was clear in appearance. Reconnaissance groundwater samples were collected and transferred directly into laboratory-prepared sample containers, placed on ice in a cooler, and delivered under standard chain-of-custody protocols to OnSite for analysis.



MONITORING WELL INSTALLATION AND DEVELOPMENT

Monitoring wells FMW-4 through FMW-7 were constructed in accordance with the Minimum Standards for Construction and Maintenance of Wells as established in accordance with Chapter 173-160 of the Washington Administrative Code (WAC 173-160). The monitoring wells were constructed using 2-inch-diameter Schedule 40 polyvinyl chloride casing and 0.010-inch slotted pre-pack screens. The monitoring wells were constructed with the screens placed at depths ranging from 15 to 25 feet bgs. The borehole annulus surrounding each pre-pack well screen was filled with a filter pack consisting of clean 10/20 sand and placed from the base of the screen to approximately 1 foot 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 seal was placed around the monitoring well from the top of the bentonite to approximately 1-foot bgs and surrounding the flush-mounted monument.

New monitoring wells FMW-4 through FMW-7 and existing monitoring wells MW-1 through MW-3 were developed using a submersible pump. Each monitoring well was developed until the majority of fine-grained sediment had been removed from the well screen and adjacent sand pack. Each monitoring well was completed at grade with a traffic-rated flush-mounted steel monument. The location and elevation of each monitoring well was surveyed by Terrane Land Surveying of Bellevue, Washington.

GROUNDWATER MONITORING EVENT

Groundwater samples were collected from monitoring wells MW-1 through MW-3 and FMW-4 through FMW-7 on April 12, 2018. The depth to groundwater was measured in each monitoring well prior to purging (Table 1). The monitoring wells were opened, and the groundwater levels were permitted to equilibrate with atmospheric pressure before groundwater level measurements were obtained. Prior to sampling, groundwater was purged from the monitoring wells in accordance with EPA low-flow sampling protocols. The well purging and sampling was performed using a peristaltic pump and dedicated tubing at a flow rate of 200 milliliters per minute. The tubing intake was placed at the approximate middle portion of the water column in each monitoring well. Water quality was monitored during purging using a water-quality meter equipped with a flow-through cell. The water-quality parameters monitored and recorded included temperature, pH, specific conductance, oxidation-reduction potential, turbidity, and dissolved oxygen. The monitoring wells were purged until all parameters stabilized. Following purging, groundwater samples were collected directly from the pump outlet tubing upstream of the flow-through cell and placed into laboratory-prepared sample containers. The sample containers were placed in an iced cooler and transported under standard chain-of-custody protocols to OnSite for analysis.

LABORATORY ANALYSIS

Soil and groundwater samples were submitted for laboratory analysis for one or more of the following:

- GRO by Northwest Method NWTPH-Gx;
- DRO and ORO by Northwest Method NWTPH-Dx;



- BTEX and HVOCs by EPA Method 8260C; and
- Resource Conservation and Recovery Act metals (i.e., arsenic, barium, cadmium, chromium, lead, mercury, selenium, silver) by EPA Method Series 6000/7000 (soil samples only).

INVESTIGATION-DERIVED WASTE

Soil cuttings, decontamination water, monitoring well purge water, and other wastewater generated during the subsurface investigation were temporarily stored in labeled 55-gallon steel drums on the Site pending profiling for off-Site disposal.

RESULTS

A summary of the results of the subsurface investigation conducted by Farallon is presented below. Figures 4 and 5 depict soil and groundwater sampling results, respectively. Summary tables for soil sampling are provided in Tables 2 through 4. Summary tables for groundwater and reconnaissance groundwater sampling are provided in Tables 5 and 6, respectively. The complete laboratory analytical reports for soil and groundwater samples are provided in Attachment B.

SOIL

ORO was detected at a concentration exceeding the MTCA Method A cleanup level in a soil sample collected at a depth of 5 feet bgs from boring FB-3 on the central portion of the Site (Figure 4; Table 2). In addition, ORO was detected at concentrations less than the MTCA Method A cleanup level in soil samples collected from the Site. GRO and BTEX were reported non-detect at the laboratory PQL in soil samples collected from the Site.

Tetrachloroethene (PCE) was detected at a concentration less than the MTCA Method A cleanup level in a single soil sample collected at a depth of 16 feet bgs from boring FMW-6 proximate to a machine shop on the northern portion of the Site (Figure 4; Table 3).

Metals, including barium, chromium, and/or lead, were detected at concentrations approximating background concentrations in shallow soil samples collected from the Site (Table 4).

GROUNDWATER

Shallow groundwater was encountered at depths ranging from approximately 16 to 19 feet bgs at the Site. Based on groundwater contours developed using the synoptic measurements, the interpreted groundwater flow direction of the shallow groundwater-bearing zone is generally to the southwest (Figure 3).

ORO and/or DRO were detected at concentrations less than the MTCA Method A cleanup level in reconnaissance groundwater samples collected from borings FB-5 and FMW-4. DRO, ORO, GRO, BTEX, and HVOCs were reported non-detect at the laboratory PQL in groundwater samples collected from the monitoring wells during the April 2018 groundwater monitoring event (Figure 5; Tables 5 and 6).



CONCLUSIONS AND RECOMMENDATIONS

The subsurface investigation conducted by Farallon in 2018 for COPCs at the Site confirmed the presence of ORO at a concentration that exceeded MTCA Method A cleanup levels in soil in a localized area in the central portion of the Site. Based on the subsurface investigation data for the Site, the nature and extent of COPCs have been sufficiently characterized to support the selection and design of a permanent cleanup action in accordance with MTCA for the Site in conjunction with the proposed redevelopment. To support construction planning and profiling requirements with the selected disposal facilities, additional pre-construction soil sampling will be needed to refine the areas and volumes of ORO-contaminated soil and soil with detected concentrations of PCE less than the MTCA Method A cleanup level. Performance and confirmation soil sample analytical results will be used to document the cleanup action at the Site with the objective of obtaining a No Further Action determination.

GRO and ORO were detected at concentrations less than MTCA Method A cleanup levels in soil samples collected from several localized areas at the Site. If excavated during redevelopment, this soil will require special handling and disposal in accordance with *Guidance for Remediation of Petroleum Contaminated Sites* revised June 2016, prepared by Ecology. In addition, PCE was detected at a concentration less than the MTCA Method A cleanup level in a soil sample collected proximate to a machine shop on the northern portion of the Site. If excavated during redevelopment, this soil will require special handling and disposal in accordance with WAC 173-303.

Analytical results of groundwater samples collected during the subsurface investigation confirmed that COPCs were detected at concentrations less than MTCA cleanup levels. ORO and/or DRO were detected at concentrations less than the MTCA Method A cleanup level in reconnaissance groundwater samples collected from borings FB-5 and FMW-4. GRO, BTEX, and HVOCs were reported non-detect at the PQL in reconnaissance groundwater samples collected from the borings and in groundwater samples collected from the monitoring wells. Groundwater is not a medium of concern at the Site because there are no COPCs exceeding groundwater cleanup levels. However, special treatment and/or discharge requirements for stormwater and/or shallow groundwater encountered during redevelopment excavation or dewatering activities, may be required for discharge to the stormwater and/or sanitary sewer systems.



CLOSING

Farallon appreciates the opportunity to provide Lennar 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.

Pete Kingston, L.G.
Associate Geologist

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

Attachments: Figure 1, *Site Vicinity Map*
Figure 2, *Site Plan*
Figure 3, *Groundwater Elevations for April 12, 2018*
Figure 4, *Petroleum and Tetrachloroethene Concentrations in Soil*
Figure 5, *Petroleum and Tetrachloroethene Concentrations in Groundwater*
Table 1, *Groundwater Elevations*
Table 2, *Soil Analytical Results for TPH and BTEX*
Table 3, *Soil Analytical Results for HVOCs*
Table 4, *Soil Analytical Results for Metals*
Table 5, *Groundwater Analytical Results for TPH and BTEX*
Table 6, *Groundwater Analytical Results for Halogenated VOCs*
Attachment A, *Boring/Well Construction Logs*
Attachment B, *Laboratory Analytical Reports*

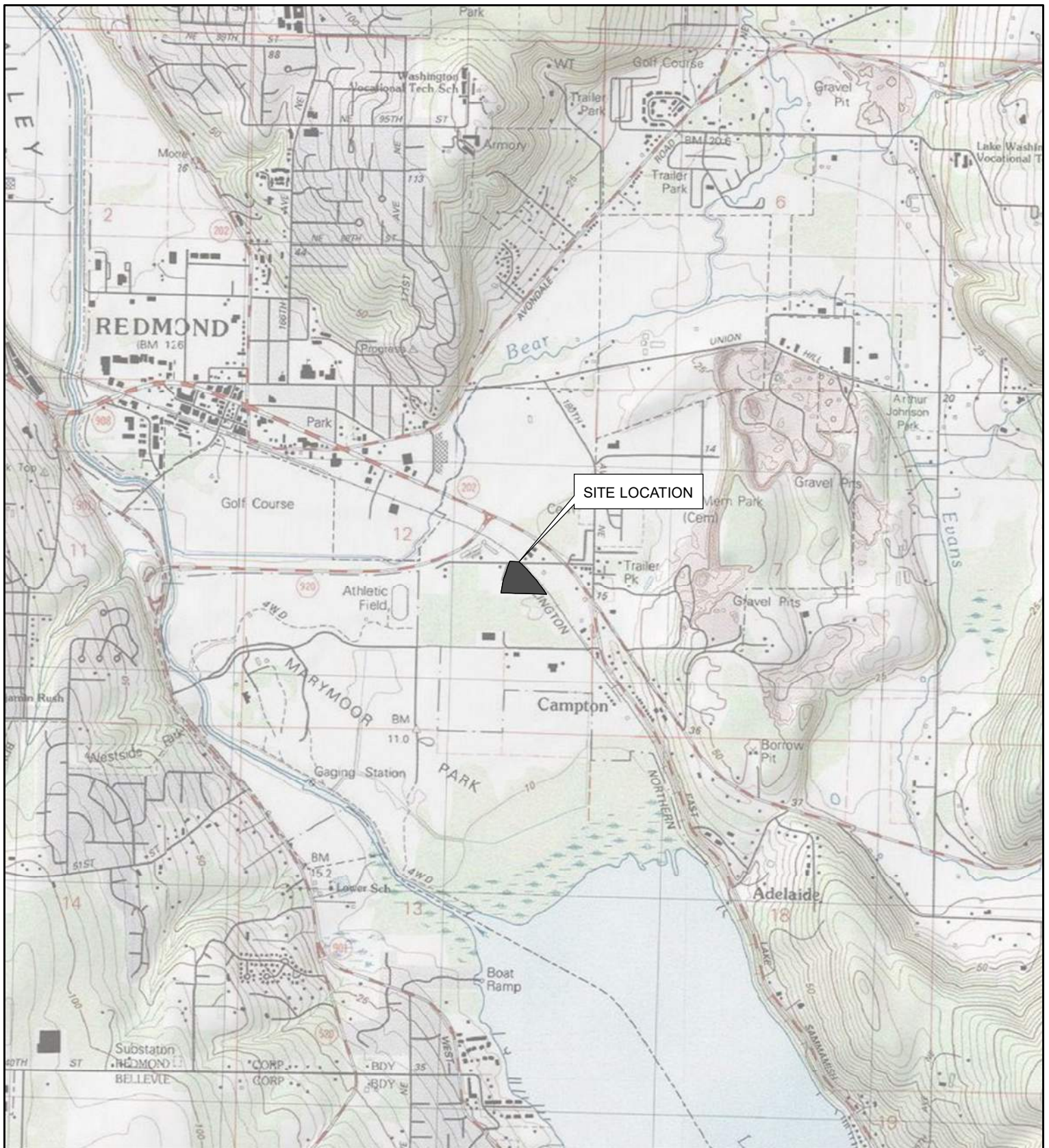
PK/JRC:cm

FIGURES

SUMMARY OF SUBSURFACE INVESTIGATION

Marymoor Apartments Property
17611 Northeast 70th Street
Redmond, Washington

Farallon PN: 1198-005



REFERENCE: 7.5 MINUTE USGS QUADRANGLE REDMOND, WASHINGTON, DATED 2011



0 2,000
SCALE IN FEET



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FIGURE 1

SITE VICINITY MAP
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70th STREET
REDMOND, WASHINGTON

FARALLON PN: 1198-005

Drawn By: jones

Checked By: TH

Date: 9/13/2018

Disc Reference:

Document Path: Q:\Projects\1198_Lennar\005 Marymoor Apartments\Mapfiles\SSI_Summary\Figure-01_SiteVicinity.mxd



LEGEND

● BORING (FARALLON, 2018)

● BORING (PANGE0, 2018)

● BORING (AGRA, 1994)

● MONITORING WELL (FARALLON, 2018)

● MONITORING WELL (AGRA, 1994)

■ PIEZOMETER (PANGE0, 2018)

■ TEST PIT (AGRA, 1994)

■ PARCEL BOUNDARY

— SITE BOUNDARY

PN: 1225059152 KING COUNTY PARCEL NUMBER

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES
MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.
AST = ABOVEGROUND STORAGE TANK



0 60
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FIGURE 2

SITE PLAN
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70th STREET
REDMOND, WASHINGTON

FARALLON PN: 1198-005

Drawn By: jjones

Checked By: PK

Date: 9/28/2018

Disc Reference:

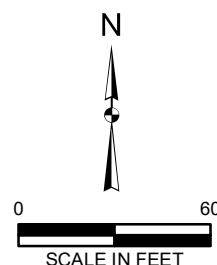
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LEGEND

- BORING (FARALLON, 2018)
- BORING (PANGE0, 2018)
- BORING (AGRA, 1994)
- MONITORING WELL (FARALLON, 2018)
- MONITORING WELL (AGRA, 1994)
- PIEZOMETER (PANGE0, 2018)
- SITE BOUNDARY
- 12.0 --- GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- GROUNDWATER FLOW DIRECTION
- (12.0) GROUNDWATER ELEVATION (12/14/17)

NOTES:
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Drawn By: jjones Checked By: PK Date: 9/14/2018 Disc Reference: Q:\Projects\1198_Lennar\005 Marymoor Apartments\Mapfiles\ISSI_Summary\Figure-03_GW_Contours.mxd

FIGURE 3
GROUNDWATER ELEVATIONS FOR APRIL 12, 2018
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70th STREET
REDMOND, WASHINGTON

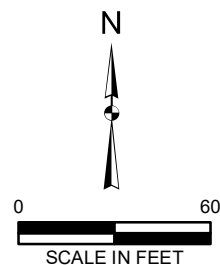
FARALLON PN: 1198-005



LEGEND

- BORING (FARALLON, 2018)
- BORING (PANGEO, 2018)
- BORING (AGRA, 1994)
- MONITORING WELL (FARALLON, 2018)
- MONITORING WELL (AGRA, 1994)
- PIEZOMETER (PANGEO, 2018)
- SITE BOUNDARY

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION
DEPTHS AND CONCENTRATIONS REPORTED AS:
DEPTH IN FEET BELOW GROUND SURFACE | DRO | ORO | XYLENES | PCE
ANALYTICAL RESULTS IN MILIGRAMS PER KILOGRAM
BOLD = DENOTES CONCENTRATIONS THAT EXCEED THE WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP LEVEL
< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE REPORT LIMIT LISTED
--- = DENOTES SAMPLE WAS NOT ANALYZED
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
PCE = TETRACHLOROETHENE





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FIGURE 4
PETROLEUM AND TETRACHLOROETHENE
CONCENTRATIONS IN SOIL
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70th STREET
REDMOND, WASHINGTON

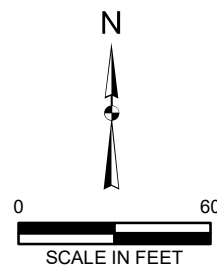
FARALLON PN: 1198-005



LEGEND

- BORING (FARALLON, 2018)
- BORING (PANGEO, 2018)
- BORING (AGRA, 1994)
- MONITORING WELL (FARALLON, 2018)
- MONITORING WELL (AGRA, 1994)
- PIEZOMETER (PANGEO, 2018)
- SITE BOUNDARY
- GROUNDWATER FLOW DIRECTION

NOTES:
ALL LOCATIONS ARE APPROXIMATE
FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES
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DATE SAMPLED AND CONCENTRATIONS REPORTED AS:
DATE SAMPLED | DRO | ORO | XYLENES | PCE
ANALYTICAL RESULTS IN MICROGRAMS PER LITER
< = DENOTES ANALYTE NOT DETECTED AT OR EXCEEDING THE
REPORTING LIMIT LISTED
DRO = TOTAL PETROLEUM HYDROCARBONS (TPH) AS DIESEL-RANGE ORGANICS
ORO = TPH AS OIL-RANGE ORGANICS
PCE = TETRACHLOROETHENE



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FIGURE 5
PETROLEUM AND TETRACHLOROETHENE
CONCENTRATIONS IN GROUNDWATER
MARYMOOR APARTMENTS PROPERTY
17611 NORTHEAST 70th STREET
REDMOND, WASHINGTON

FARALLON PN: 1198-005

Drawn By: jjones

Checked By: PK

Date: 9/28/2018

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TABLES

SUMMARY OF SUBSURFACE INVESTIGATION

Marymoor Apartments Property
17611 Northeast 70th Street
Redmond, Washington

Farallon PN: 1198-005

Table 1
Groundwater Elevations
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Location	Top of Casing Elevation (feet NAVD88)¹	Monitoring Date	Depth to Water (feet)²	Water Level Elevation (feet NAVD88)¹
MW-1	49.43	4/12/2018	16.91	32.52
MW-2	50.86	4/12/2018	18.40	32.46
MW-3	51.58	4/12/2018	19.19	32.39
FMW-4	49.63	4/12/2018	17.23	32.40
FMW-5	49.17	4/12/2018	16.72	32.45
FMW-6	48.51	4/12/2018	15.98	32.53
FMW-7	48.66	4/12/2018	16.13	32.53

NOTES:

¹ In feet above mean sea level.

² In feet below top of well casing.

NAVD88 = North American Vertical Datum of 1988

Table 2
Soil Analytical Results for TPH and BTEX
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Identification	Sample Depth (feet) ¹	Sample Date	Analytical Results (milligrams per kilogram)						
				DRO ²	ORO ²	GRO ³	Benzene ⁴	Toluene ⁴	Ethylbenzene ⁴	Xylenes ⁴
PG-1	PG-1-5.0	5.0	1/22/2018	< 27	< 53	< 5.8	< 0.0011	< 0.0055	< 0.0011	0.0014
PG-2	PG-2-5.0	5.0	1/22/2018	< 27	< 54	< 7.1	< 0.0012	< 0.0060	< 0.0012	< 0.0072
PG-3	PG-3-7.5	7.5	1/22/2018	< 27	< 54	< 6.5	< 0.0012	< 0.0059	< 0.0012	< 0.0071
PG-4	PG-4-5.0	5.0	1/23/2018	< 27	100	< 6.5	< 0.0012	< 0.0059	< 0.0012	< 0.0071
	PG-4-20.0	20.0	1/23/2018	< 30	< 59	< 6.3	< 0.0011	< 0.0056	< 0.0011	< 0.0067
PG-5	PG-5-5.0	5.0	1/23/2018	< 27	< 53	< 6.2	< 0.0013	< 0.0063	< 0.0013	< 0.0076
	PG-5-20.0	20.0	1/23/2018	< 31	< 62	< 7.0	---	---	---	---
PG-6	PG-6-5.0	5.0	1/23/2018	< 39	230	< 11	< 0.0012	< 0.0059	0.0016	< 0.0071
	PG-6-12.5	12.5	1/23/2018	< 27	< 53	---	---	---	---	---
	PG-6-20.0	20.0	1/23/2018	< 30	< 59	< 6.5	---	---	---	---
FB-1	FB-1-5.0	5.0	3/20/2018	< 26	< 53	< 5.3	< 0.00097	< 0.0049	< 0.00097	< 0.00287
	FB-1-17.5	17.5	3/20/2018	< 27	< 53	< 3.6	< 0.00076	< 0.0038	< 0.00076	< 0.00226
FB-2	FB-2-5.0	5.0	3/20/2018	< 27	< 53	< 5.2	< 0.0010	< 0.0050	< 0.0010	< 0.0030
	FB-2-16.0	16.0	3/20/2018	< 27	< 53	< 5.0	< 0.00093	< 0.0046	< 0.00093	< 0.00283
FB-3	FB-3-5.0	5.0	3/20/2018	< 330	3,000	< 6.2	< 0.00071	< 0.0035	< 0.00071	< 0.00211
	FB-3-19.0	19.0	3/20/2018	< 26	< 52	< 4.3	< 0.00081	< 0.0041	< 0.00081	< 0.00241
FB-4	FB-4-5.0	5.0	3/20/2018	< 26	< 52	< 6.2	< 0.0013	< 0.0066	< 0.0013	< 0.0039
FB-5	FB-5-4.0	4.0	3/20/2018	68 N	800	6.7	< 0.00089	< 0.0045	< 0.00089	< 0.00269
	FB-5-16.5	16.5	3/22/2018	< 140	480	< 5.9	< 0.0013	< 0.0063	< 0.0013	0.0017
FB-6	FB-6-6.0	6.0	3/22/2018	< 49	440	< 8.4	< 0.0014	< 0.0068	< 0.0014	< 0.0041
	FB-6-15.5	15.5	3/22/2018	< 27	< 54	< 5.6	< 0.0010	< 0.0050	< 0.0010	< 0.0030
FMW-4	FMW-4-5.0	5.0	3/20/2018	< 26	< 53	< 4.8	< 0.0012	< 0.0059	< 0.0012	< 0.0036
	FMW-4-18.0	18.0	3/21/2018	< 26	< 53	< 5.1	< 0.00094	< 0.0047	< 0.00094	< 0.00284
FMW-5	FMW-5-5.0	5.0	3/21/2018	< 26	< 52	< 5.3	< 0.00098	< 0.0049	< 0.00098	< 0.00298
	FMW-5-17.0	17.0	3/21/2018	< 27	< 54	< 4.9	< 0.00097	< 0.0048	< 0.00097	< 0.00287
MTCA Method A Cleanup Levels for Soil ⁵				2,000	2,000	30/100⁶	0.03	7	6	9

Table 2
Soil Analytical Results for TPH and BTEX
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Identification	Sample Depth (feet) ¹	Sample Date	Analytical Results (milligrams per kilogram)						
				DRO ²	ORO ²	GRO ³	Benzene ⁴	Toluene ⁴	Ethylbenzene ⁴	Xylenes ⁴
FMW-6	FMW-6-5.0	5.0	3/21/2018	< 26	73	< 5.4	< 0.00096	< 0.0048	< 0.00096	< 0.00286
	FMW-6-16.0	16.0	3/21/2018	< 26	55	< 4.7	< 0.00089	< 0.0044	< 0.00089	< 0.00269
FMW-7	FMW-7-5.0	5.0	3/21/2018	< 26	< 52	< 5.3	< 0.0010	< 0.0050	< 0.0010	< 0.0030
	FMW-7-17.5	17.5	3/21/2018	< 26	< 52	< 4.7	< 0.00093	< 0.0046	< 0.00093	< 0.00283
MTCA Method A Cleanup Levels for Soil⁵				2,000	2,000	30/100⁶	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 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 8260C.

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 revised 2013.

⁶Cleanup level is 30 milligrams per kilogram if benzene is detected and 100 milligrams per kilogram if benzene is not detected.

BTEX = benzene, toluene, ethylbenzene and xylenes

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

GRO = TPH as gasoline-range organics

N = hydrocarbons in the oil-range are impacting the diesel-range result

ORO = TPH as oil-range organics

Table 3
Soil Analytical Results for Halogenated VOCs
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Identification	Sample Depth (feet) ¹	Sample Date	Analytical Results (milligrams per kilogram) ²				
				PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride
PG-4	PG-4-20.0	20.0	1/23/2018	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
PG-5	PG-5-20.0	20.0	1/23/2018	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
PG-6	PG-6-12.5	12.5	1/23/2018	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
	PG-6-20.0	20.0	1/23/2018	< 0.0011	< 0.0011	< 0.0011	< 0.0011	< 0.0011
FB-1	FB-1-17.5	17.5	3/20/2018	< 0.00076	< 0.00076	< 0.00076	< 0.00076	< 0.00076
FB-2	FB-2-16.0	16.0	3/20/2018	< 0.00093	< 0.00093	< 0.00093	< 0.00093	< 0.00093
FB-3	FB-3-19.0	19.0	3/20/2018	< 0.00081	< 0.00081	< 0.00081	< 0.00081	< 0.00081
FB-5	FB-5-16.5	16.5	3/22/2018	< 0.0013	< 0.0013	< 0.0013	< 0.0013	< 0.0013
FB-6	FB-6-15.5	15.5	3/22/2018	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
FMW-4	FMW-4-18.0	18.0	3/21/2018	< 0.00094	< 0.00094	< 0.00094	< 0.00094	< 0.00094
FMW-5	FMW-5-17.0	17.0	3/21/2018	< 0.00097	< 0.00097	< 0.00097	< 0.00097	< 0.00097
FMW-6	FMW-6-5.0	5.0	3/21/2018	< 0.00096	< 0.00096	< 0.00096	< 0.00096	< 0.00096
	FMW-6-16.0	16.0	3/21/2018	0.0014	< 0.00089	< 0.00089	< 0.00089	< 0.00089
FMW-7	FMW-7-5.0	5.0	3/21/2018	< 0.0010	< 0.0010	< 0.0010	< 0.0010	< 0.0010
	FMW-7-17.5	17.5	3/21/2018	< 0.00093	< 0.00093	< 0.00093	< 0.00093	< 0.00093
MTCA Cleanup Levels for Soil³				0.05	0.03	160⁴	1,600⁴	0.67⁴

NOTES:

< 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 8260C. Only select analytes shown; see laboratory report for full analyte list.

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 2013, unless otherwise noted.

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>

PCE = tetrachloroethene

TCE = trichloroethene

VOC = volatile organic compound

Table 4
Soil Analytical Results for Metals
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Identification	Sample Depth (feet) ¹	Sample Date	Analytical Results (milligrams per kilogram) ²							
				Arsenic	Barium	Cadmium	Chromium	Lead	Mercury	Selenium	Silver
PG-1	PG-1-5.0	5.0	1/22/2018	< 11	73	< 0.53	35	5.6	< 0.27	< 11	< 1.1
PG-2	PG-2-5.0	5.0	1/22/2018	< 11	56	< 0.53	28	< 5.3	< 0.27	< 11	< 1.1
PG-3	PG-3-7.5	7.5	1/22/2018	< 11	48	< 0.54	35	< 5.4	< 0.27	< 11	< 1.1
PG-4	PG-4-5.0	5.0	1/23/2018	< 11	58	< 0.53	27	< 5.3	< 0.27	< 11	< 1.1
PG-5	PG-5-5.0	5.0	1/23/2018	< 11	43	< 0.53	26	< 5.3	< 0.27	< 11	< 1.1
PG-6	PG-6-5.0	5.0	1/23/2018	< 13	97	< 0.63	39	14	< 0.31	< 13	< 1.3
FB-1	FB-1-5.0	5.0	3/20/2018	< 11	70	< 0.53	29	< 5.3	< 0.26	< 11	< 1.1
FB-2	FB-2-5.0	5.0	3/20/2018	< 11	83	< 0.53	49	< 5.3	< 0.27	< 11	< 1.1
FB-3	FB-3-5.0	5.0	3/20/2018	< 11	53	< 0.53	48	< 5.3	< 0.26	< 11	< 1.1
FB-4	FB-4-5.0	5.0	3/20/2018	< 10	58	< 0.52	34	< 5.2	< 0.26	< 10	< 1.0
FB-5	FB-5-4.0	4.0	3/20/2018	< 12	110	< 0.58	53	13	< 0.29	< 12	< 1.2
FB-6	FB-6-6.0	6.0	3/22/2018	< 14	100	< 0.68	56	14	< 0.34	< 14	< 1.4
FMW-4	FMW-4-5.0	5.0	3/20/2018	< 11	74	< 0.53	28	< 5.3	< 0.26	< 11	< 1.1
FMW-5	FMW-5-5.0	5.0	3/21/2018	< 10	75	< 0.52	24	< 5.2	< 0.26	< 10	< 1.0
FMW-6	FMW-6-5.0	5.0	3/21/2018	< 10	56	< 0.52	43	< 5.2	< 0.26	< 10	< 1.0
FMW-7	FMW-7-5.0	5.0	3/21/2018	< 10	57	< 0.52	40	< 5.2	< 0.26	< 10	< 1.0
MTCA Cleanup Levels for Soil ³				20	16,000 ⁴	2	2,000	250	2	400 ⁴	400 ⁴

NOTES:
< 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 6010C/7471B.
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 2013 unless otherwise noted.
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>

Table 5
Groundwater Analytical Results for TPH and BTEX
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Date	Sample Identification	Analytical Results (micrograms per liter)						
			DRO ¹	ORO ¹	GRO ²	Benzene ³	Toluene ³	Ethylbenzene ³	Xylenes ³
Reconnaissance Boring Groundwater Samples									
FB-1	3/20/2018	RGW-FB-1	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FB-3	3/20/2018	RGW-FB-3	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FB-4	3/20/2018	RGW-FB-4	< 260	< 420	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FB-5	3/22/2018	RGW-FB-5	< 260	490	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FB-6	3/22/2018	RGW-FB-6	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-4	3/23/2018	RGW-FMW-4	350	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-5	3/22/2018	RGW-FMW-5	< 260	< 420	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-6	3/23/2018	RGW-FMW-6	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-7	3/22/2018	RGW-FMW-7	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
Monitoring Well Groundwater Samples									
MW-1	4/12/2018	MW-1-20180412	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
MW-2	4/12/2018	MW-2-20180412	< 250	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
MW-3	4/12/2018	MW-3-20180412	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-4	4/12/2018	FMW-04-20180412	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-5	4/12/2018	FMW-05-20180412	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-6	4/12/2018	FMW-06-20180412	< 260	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
FMW-7	4/12/2018	FMW-07-20180412	< 250	< 410	< 100	< 1.0	< 1.0	< 1.0	< 2.0
MTCA Method A Cleanup Level for Groundwater ⁴			500	500	800/1,000 ⁵	5	1,000	700	1,000

NOTES:

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

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 Method A Cleanup Levels for Groundwater, Table 720-1 of Section 900 of Chapter 173-340 of the Washington Administrative Code, as amended 2013.

⁵Cleanup level is 800 micrograms per liter if benzene is detected and 1,000 micrograms per liter if benzene is not detected.

BTEX = benzene, toluene, ethylbenzene, and xylenes

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

GRO = TPH as gasoline-range organics

ORO = TPH as oil-range organics

Table 6
Groundwater Analytical Results for Halogenated VOCs
Marymoor Apartments Property
Redmond, Washington
Farallon PN: 1198-005

Sample Location	Sample Date	Sample Identification	Analytical Results (micrograms per liter) ¹						
			PCE	TCE	cis-1,2-Dichloroethene	trans-1,2-Dichloroethene	Vinyl Chloride	Bromodichloro-methane	Chloroform
Reconnaissance Boring Groundwater Samples									
FB-1	3/20/2018	RGW-FB-1	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FB-3	3/20/2018	RGW-FB-3	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FB-4	3/20/2018	RGW-FB-4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FB-5	3/22/2018	RGW-FB-5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FB-6	3/22/2018	RGW-FB-6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-4	3/23/2018	RGW-FMW-4	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-5	3/22/2018	RGW-FMW-5	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.61
FMW-6	3/23/2018	RGW-FMW-6	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-7	3/22/2018	RGW-FMW-7	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.22	1.3
Monitoring Well Groundwater Samples									
MW-1	4/12/2018	MW-1-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
MW-2	4/12/2018	MW-2-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.64
MW-3	4/12/2018	MW-3-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-4	4/12/2018	FMW-04-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-5	4/12/2018	FMW-05-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-6	4/12/2018	FMW-06-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20
FMW-7	4/12/2018	FMW-07-20180412	< 0.20	< 0.20	< 0.20	< 0.20	< 0.20	0.20	0.89
MTCA Cleanup Levels for Groundwater ²			5	5	16 ³	160 ³	0.2	0.706 ³	1.41 ³

NOTES:

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

¹Analyzed by U.S. Environmental Protection Agency Method 8260C. Only detected and select analytes shown; see lab report for full analyte list.

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 2013, unless otherwise noted.

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/CLARHome.aspx>

PCE = tetrachloroethene

TCE = trichloroethene

VOC = volatile organic compound

ATTACHMENT A
BORING/WELL CONSTRUCTION LOGS














SUMMARY OF SUBSURFACE INVESTIGATION

Marymoor Apartments Property
17611 Northeast 70th Street
Redmond, Washington

Farallon PN: 1198-005

USCS Classification and Graphic Legend

Major Divisions	USCS Graphic Symbol	USCS Letter Symbol	Lithologic Description
-----------------	---------------------	--------------------	------------------------

Coarse-Grained Soil (More than 50% of material is larger than No. 200 sieve size)	GRAVEL AND GRAVELLY SOIL (More than 50% of coarse fraction retained on No. 4 sieve)	CLEAN GRAVEL (Little or no fines)		GW	Well graded GRAVEL, well graded GRAVEL with sand
				GP	Poorly graded GRAVEL, GRAVEL with sand
		GRAVEL WITH FINES (Appreciable amount of fines)		GP-GM	Poorly graded GRAVEL - GRAVEL with sand and silt
				GM	Silty GRAVEL
	SAND AND SANDY SOIL (More than 50% of coarse fraction passed through No. 4 sieve)	CLEAN SAND (Little or no fines)		GC	Clayey GRAVEL
				SW	Well graded SAND
		SAND WITH FINES (Appreciable amount of fines)		SP	Poorly graded SAND
				SP-SM	Poorly graded SAND - silty SAND
				SM	Silty SAND
				SC	Clayey SAND
	SM-ML	SILT - Silty SAND			
Fine-Grained Soil (More than 50% of material is smaller than No. 200 sieve size)	SILT AND CLAY (Liquid limit less than 50)			ML	SILT
				CL	CLAY
				OL	Organic SILT
	SILT AND CLAY (Liquid limit greater than 50)			MH	Inorganic SILT
				CH	Inorganic CLAY
				OH	Organic CLAY
		Highly Organic Soil		PT	Peat
	OTHER MATERIALS	PAVEMENT			AC
				CO	Concrete
OTHER				RK	Bedrock
				WD	Wood Debris
				DB	Debris (Miscellaneous)
				PC	Portland cement

Legend



Sample Interval

Grab Sample Interval

Water level at time of drilling

Water level at time of sampling

Blank Casing

Screened Casing



Cement Grout



Bentonite



Sand Pack



Well Cap

————— Solid line indicates sharp contact between units well defined.

- - - - - Dashed line indicates gradational contact between units.

feet bgs = feet below ground surface

NE = Not Encountered

NA = Not Applicable

PID = Photoionization Detector

PN = Project Number





*ppm = parts per million total organic vapors in isobutylene equivalents using a 10.6 electron volt lamp
USCS = Unified Soil Classification System

Client: Lennar Multifamily
Project: Marymoor Apartments
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1045 **Sampler Type:** 1.5' SPT
Date/Time Completed: 1/22/18 @ 1220 **Drive Hammer (lbs.):** 140
Equipment: BK81 **Depth of Water ATD (ft bgs):** 15.0
Drilling Company: Holocene **Total Boring Depth (ft bgs):** 31.3
Drilling Foreman: Jerrod **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow-Stem Auger

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
0		0.0 - 5.0: Cleared for utilities, no recovery.								
5	X	5.0' - 5.8': Poorly-graded SAND (95% sand, 5% gravel) fine sand, fine gravel, very loose, tan, moist, fine gravel, no odor.	SP		53	1 1 3	0.1	PG-1-5.0	x	
	X	7.5'-8.8': Poorly-graded SAND (95% sand, 5% gravel) fine sand, fine gravel, medium dense, tan, moist, fine gravel, no odor.	SP		87	6 8 10	4.0	PG-1-7.5		
10	X	10.0' - 11.0': Well-graded SAND with gravel (80% sand, 20% gravel), fine to coarse sand, fine to coarse gravel, medium dense, tan, moist, no odor.	SW		67	7 10 13		PG-1-10.0		
15	X	15.0' - 15.9': Well-graded SAND with gravel (70% sand, 30% gravel), fine to coarse sand, fine to coarse gravel, medium dense, dark brown, wet, no odor.	SW		60	7 7 9	0.1	PG-1-15.0		Σ
20										





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

Client: Lennar Multifamily
Project: Marymoor Apartments
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1045 **Sampler Type:** 1.5' SPT
Date/Time Completed: 1/22/18 @ 1220 **Drive Hammer (lbs.):** 140
Equipment: BK81 **Depth of Water ATD (ft bgs):** 15.0
Drilling Company: Holocene **Total Boring Depth (ft bgs):** 31.3
Drilling Foreman: Jerrod **Total Well Depth (ft bgs):** NA
Drilling Method: Hollow-Stem Auger

Depth (feet bgs.)	Sample Interval	Lithologic Description	USCS	USCS Graphic	% Recovery	Blow Counts 8/8/8	PID (ppm)	Sample ID	Sample Analyzed	Boring/Well Construction Details
20		20.0' - 20.3': Poorly-graded SAND with gravel (85% sand, 15% gravel), fine sand, fine gravel, very dense, dark brown, wet, no odor.	SP		60	10 25 35	0.1	PG-1-20.0		
		20.3' - 20.9': Well-graded GRAVEL with sand (75% gravel, 25% sand) fine to medium gravel, fine to medium sand, very dense, dark brown, wet, no odor	GW							
25		25.0' - 26.2': Well-graded GRAVEL with sand (75% gravel, 25% sand) medium to coarse gravel, fine to medium sand, very dense, brown, wet, no odor.	GW		80	17 18 34	0.2	PG-1-25.0		
30		30.0' - 31.2': Well-graded SAND with gravel (80% sand, 20% gravel), fine to coarse sand, fine to coarse gravel, very dense, dark brown, wet, no odor.	SW		87	11 42 50	0.1	PG-1-31.0		

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1220

Date/Time Completed: 1/22/18 @ 1350

Equipment: BK81

Drilling Company: Holocene

Drilling Foreman: Jerrod

Drilling Method: Hollow-Stem Auger





Sampler Type: 1.5' SPT

Drive Hammer (lbs.): 140

Depth of Water ATD (ft bgs): 15

Total Boring Depth (ft bgs): 26.5

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' - 5.0': Cleared for utilities, no recovery.								
5		5.0' - 6.5': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, loose, tan, moist, no odor.	SW		100	3 3 3	0.0	PG-2-5.0	x	
		7.5' - 8.8': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, medium dense, tan, moist, no odor.	SW		80	6 10 10	0.1	PG-2-7.5		
10		10.0' - 10.9': Well-graded SAND with gravel (85% sand, 15% gravel), medium to coarse sand, fine to coarse gravel, medium dense, tan, moist, no odor.	SW		60	5 10 15	0.1	PG-2-10.0		
15		15.0' - 15.8': Well-graded SAND with gravel (85% sand, 15% gravel), medium to coarse sand, fine to coarse gravel, trace silt, medium dense, tan, moist, no odor.	SW		53	18 12 14	0.0	PG-2-15.0		⊗
20										

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1220

Date/Time Completed: 1/22/18 @ 1350

Equipment: BK81

Drilling Company: Holocene

Drilling Foreman: Jerrod

Drilling Method: Hollow-Stem Auger





Sampler Type: 1.5' SPT

Drive Hammer (lbs.): 140

Depth of Water ATD (ft bgs): 15

Total Boring Depth (ft bgs): 26.5

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
20		20.0' - 20.3': Poorly-graded SAND with gravel (85% sand, 15% gravel), medium to coarse sand, fine to coarse gravel, dense, tan, wet, no odor.	SP		87	20	0.1	PG-2-20.0		
		20.3' - 21.3': Well-graded GRAVEL with sand (75% gravel, 25% sand) fine to coarse sand, fine to coarse gravel, dense, trace silt, brown, wet, no odor.	GW			20 30				
25		25.0' - 25.5': Poorly-graded SAND with silt (90% sand, 10% silt) fine to medium sand, dense, brown, wet, no odor.	SP		53	22	0.2	PG-2-25.0		
		25.5' - 25.8': Well-graded GRAVEL with sand (75% gravel, 25% sand) fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	GW			18 31				
30										

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA





Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1350
Date/Time Completed: 1/22/18 @ 1500
Equipment: BK81
Drilling Company: Holocene
Drilling Foreman: Jerrod
Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 15
Total Boring Depth (ft bgs): 30.3
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' - 5.0': Cleared for utilities, no recovery.								Monument Well cap
										Concrete
5		5.0' - 5.3': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, loose, brown, moist, no odor.	SW		20	2 2 4	0.2	PG-3-5.0		Bentonite
		7.5' - 9.0': Well-graded SAND (100% sand) fine to coarse sand, trace fine gravel, medium dense, tan, moist, no odor.	SW		100	5 8 6	0.1	PG-3-7.5	x	
10		10.0' - 10.8': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, medium dense, moist, no odor.	SW		53	5 13 13	0.2	PG-3-10.0		
15		15.0' - 15.4': Poorly-graded SAND (95% sand, 5% gravel), fine sand, dense, brown, wet, no odor.	SP		60	12 19 20	0.2	PG-3-15.0		Sand
20										

Monument Type: Flush mount

Casing Diameter (inches): 2

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 20 - 30

Well Construction Information

Filter Pack: 10 - 20 sand pack

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







Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/22/18 @ 1350
Date/Time Completed: 1/22/18 @ 1500
Equipment: BK81
Drilling Company: Holocene
Drilling Foreman: Jerrod
Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 15
Total Boring Depth (ft bgs): 30.3
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
20		20.0' - 20.5': Poorly-graded SAND (100% sand), fine to medium sand, dense, brown, wet, no odor.	SP		47	12		PG-3-20.0		
		20.5' - 20.7': Well-graded GRAVEL with sand (75% gravel, 25% sand) fine to coarse gravel, fine to coarse sand, trace silt, dense, brown, wet, no odor.	GW			8 27	0.1			Screen
25		25.0' - 25.4': Well-graded SAND (100% sand), fine to medium sand, very dense, brown, wet, no odor.	SW		87	18		PG-3-25.0		
		25.4' - 26.3': Well-graded GRAVEL (95% gravel, 5% sand) fine to coarse gravel, very dense, brown, wet, no odor	GW			14 38	0.2			
30		30.0' - 30.2': Well-graded SAND (100% sand), fine to medium sand, very dense, brown, wet, no odor.	SW		67	50	0.2	PG-3-30.0		End cap
		30.2' - 30.7': Well-graded GRAVEL (95% gravel, 5% sand) fine to coarse gravel, very dense, brown, wet, no odor	GW							

Monument Type: Flush mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010"
Screened Interval (ft bgs): 20 - 30

Well Construction Information

Filter Pack: 10 - 20 sand pack
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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 0815

Date/Time Completed: 1/23/18 @ 0930

Equipment: BK81

Drilling Company: Holocene

Drilling Foreman: Jerrod

Drilling Method: Hollow-Stem Auger





Sampler Type: 1.5' SPT

Drive Hammer (lbs.): 140

Depth of Water ATD (ft bgs): 15

Total Boring Depth (ft bgs): 31.5

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' - 5.0': Cleared for utilities, no recovery.								
5		5.0' - 6.5': Well-graded SAND (100% sand) fine to coarse sand, loose, tan, moist, no odor.	SW		100	1 3 4	0.0	PG-4-5.0	x	
		7.5' - 8.5': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, medium dense, fine gravel, tan, moist, no odor.	SW		67	4 5 7	0.0	PG-4-7.5		
10		10.0' - 10.9': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, fine to coarse gravel, medium dense, tan, moist, no odor.	SW		60	4 6 6	0.1	PG-4-10.0		
15		15.0' - 15.4': Well-graded GRAVEL with sand (60% gravel, 40% sand), fine to coarse gravel, fine to coarse sand, medium dense, brown, wet, no odor.	GW		27	9 10 15		PG-4-15.0		⊗
20										

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 0815

Date/Time Completed: 1/23/18 @ 0930

Equipment: BK81

Drilling Company: Holocene

Drilling Foreman: Jerrod

Drilling Method: Hollow-Stem Auger







Sampler Type: 1.5' SPT

Drive Hammer (lbs.): 140

Depth of Water ATD (ft bgs): 15

Total Boring Depth (ft bgs): 31.5

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
20		20.0' - 20.3': Poorly-graded SAND (100% sand), fine sand, medium dense, brown, wet, no odor.	SP		60	8		PG-4-20.0	x	
		20.3' - 20.9': Well-graded GRAVEL with sand (65% gravel, 35% sand) fine to coarse gravel, fine to medium sand, medium dense, brown, wet, no odor.	GW			13 10	0.1			
25		25.0' - 25.8': Well-graded SAND (95% sand, 5% gravel), fine to coarse sand, dense, brown, wet, no odor.	SW		100	12		PG-4-25.0		
		25.8' - 26.5': SILTY GRAVEL with sand (65% gravel, 20% sand, 15% silt) fine to coarse gravel, fine to medium sand, dense, brown, wet, no odor.	GM			19 29	0.1			
30		30.0' - 30.4': Well-graded SAND (100% sand) fine to coarse sand, very dense, tan, wet, no odor.	SW		100	15		PG-4-30.0		
		30.4' - 31.5': Well-graded GRAVEL with sand (85% gravel, 15% sand) fine to coarse gravel, fine to coarse sand, very dense, brown, wet, no odor.	GW			50				
35										

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA






Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 0935
Date/Time Completed: 1/23/18 @ 1050
Equipment: BK81
Drilling Company: Holocene
Drilling Foreman: Jerrod
Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 20.8
Total Boring Depth (ft bgs): 31.5
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' - 5.0': Cleared for utilities, no recovery.								
5		5.0' - 6.1': Well-graded SAND (100% sand) fine to coarse sand, loose, tan, moist, no odor.	SW		100	3 3 3	0.0	PG-5-5.0	x	
		7.5' - 8.0': Well-graded SAND (100% sand) fine to coarse sand, medium dense, tan, moist, no odor.	SW		67	6 7 11	0.0	PG-5-7.5		
		8.0' - 8.5': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, medium dense, tan, moist, no odor.	SW							
10		10.0' - 11.1': Well-graded SAND (90% sand, 10% gravel), fine to coarse sand, medium dense, fine gravel, tan, moist, no odor.	SW		60	6 11 13	0.0	PG-5-10.0		
15		15.0' - 15.4': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, medium dense, tan, moist, no odor.	SW		27	24 10 16		PG-5-15.0		
20										

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: Backfill
Annular Seal: NA
Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 0935

Date/Time Completed: 1/23/18 @ 1050

Equipment: BK81

Drilling Company: Holocene

Drilling Foreman: Jerrod

Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT

Drive Hammer (lbs.): 140

Depth of Water ATD (ft bgs): 20.8

Total Boring Depth (ft bgs): 31.5

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
20		20.0' - 20.8': Well-graded SAND (100% sand) fine to coarse sand, dense, tan, moist, no odor.	SW		60	16		PG-5-20.0	x	
		20.8' - 21.1': Well-graded SAND with gravel (55% sand, 45% gravel), fine to coarse sand, fine to coarse gravel, dense, brown, wet, no odor.	SW			19	0.1			
						21				
25		25.0' - 26.0': Well-graded SAND (100% sand) fine to coarse sand, tan, wet, no odor.	SW		100			PG-5-25.0		
		26.0' - 26.5': Poorly-graded GRAVEL with silt (80% gravel, 10% sand, 10% silt) medium to coarse gravel, brown, wet, no odor.	GP				0.1			
30		30.0' - 31.1': Well-graded SAND (100% sand) fine to coarse sand, dense, brown, wet, no odor.	SW		100	16		PG-5-30.0		
		31.1' - 31.5': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, dense, brown, wet, no odor.	SW			19	0.1			
						12				

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: Backfill

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA




Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 1215
Date/Time Completed: 1/23/18 @ 1350
Equipment: BK81
Drilling Company: Holocene
Drilling Foreman: Jerrod
Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 21.5
Total Boring Depth (ft bgs): 31.5
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 - 5.0: Cleared for utilities, no recovery.								
5		5.0' -5.4': SILTY SAND (65% sand, 30% silt, 5% gravel) fine to medium sand, tan, wet [from surface runoff], no odor.	SM		100		0.1	PG-6-5.0	x	
		5.4' - 6.2': Woody debris (100% wood) moist, no odor, dense.								
		Unable to recover sample, wood lodged in drilling shoe.			67					
		Unable to recover sample, wood and rock lodged in drilling shoe.								
10		12.5' - 13.5': Poorly-graded SAND with gravel (65% sand, 35% gravel) medium to coarse sand, fine to coarse gravel, wet, no odor.	SP		60		0.1	PG-6-12.5	x	
15		15.0' - 15.4': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt) fine to coarse gravel, gray, wet, no odor.	GW		27		0.1	PG-6-15.0		
20										

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): NA	Surface Seal: NA	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): NA	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): NA	Boring Abandonment: Bentonite	Y: NA






Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 1/23/18 @ 1215
Date/Time Completed: 1/23/18 @ 1350
Equipment: BK81
Drilling Company: Holocene
Drilling Foreman: Jerrod
Drilling Method: Hollow-Stem Auger

Sampler Type: 1.5' SPT
Drive Hammer (lbs.): 140
Depth of Water ATD (ft bgs): 21.5
Total Boring Depth (ft bgs): 31.5
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
20		20.0' - 21.0': Well-graded SAND with gravel (60% sand, 40% gravel), fine to coarse sand, brown, wet, no odor.	SW				0.2	PG-6-20.0	x	
					60					
25		25.0' - 26.1': Well-graded SAND (100% sand) fine to coarse sand, brown, wet, no odor.	SW				0.1	PG-6-25.0		
		26.1' - 26.5': Well-graded GRAVEL with sand (80% gravel, 20% sand) fine to coarse gravel, wet, no odor	GW		100					
30		30.0' - 31.3': Well-graded SAND (100% sand) fine to coarse sand, brown, wet, no odor.	SW		100		0.1	PG-6-30.0		
		31.3' - 31.5": Well-graded GRAVEL with sand (80% gravel, 20% sand) fine to coarse gravel, wet, no odor	GW							

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: NA

Annular Seal: NA

Boring Abandonment: Bentonite

Ground Surface Elevation (ft): NA

Top of Casing Elevation (ft): NA

Surveyed Location: X: NA

Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 0935
Date/Time Completed: 3/20/18 @ 1125
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 17.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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 - 5.0: Cleared for utilities, no recovery.								
5		5.0' - 5.5': Well-graded SAND with gravel (85% sand, 15% gravel) fine to coarse sand, fine to coarse gravel, brown, moist, no odor.	SW					FB-1-5.0	x	
		5.5' - 14.2': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW							
10								FB-1-9.5		
15		Cobbles at approximately 14'.						FB-1-14.0		

Monument Type: NA			Well Construction Information			Ground Surface Elevation (ft): NA		
Casing Diameter (inches): 3/4" (temp)			Filter Pack: NA			Top of Casing Elevation (ft): NA		
Screen Slot Size (inches): 0.010" (temp)			Surface Seal: Backfill			Surveyed Location: X: NA		
Screened Interval (ft bgs): 20 - 25			Annular Seal: NA			Y: NA		
			Boring Abandonment: Bentonite					

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 0935
Date/Time Completed: 3/20/18 @ 1125
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 17.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 17.6': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW							
		17.6' - 19.3': Well-graded GRAVEL with sand (65% gravel, 30% sand, 5% silt) fine to coarse gravel, fine to coarse sand, brown, wet, no odor.	GW		86			FB-1-17.5	x	▽
20		20.0' - 22.2': Well-graded SAND with gravel (85% sand, 15% gravel) fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	SW					FB-1-22.0		Screen
		22.2' - 25.0': Well-graded GRAVEL with sand (70% gravel, 30% sand) fine to coarse gravel, fine to coarse sand, brown, wet, no odor.	GW		100			RGW-FB-1		
25										

Monument Type: NA

Casing Diameter (inches): 3/4" (temp)

Screen Slot Size (inches): 0.010" (temp)

Screened Interval (ft bgs): 20 - 25

Well Construction Information

Filter Pack: NA

Surface Seal: Backfill

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: FB-2

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA
Farallon PN: 1198-005
Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1125
Date/Time Completed: 3/20/18 @ 1250
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push
Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.2
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 23

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 - 5.0: Cleared for utilities, no recovery.								
5		5.0' - 9.3': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		86			FB-1-5.0	x	
							0.4	FB-2-9.0		Casing
10		10.0' - 13.0': Well-graded SAND with gravel (85% sand, 15% gravel) fine to coarse sand, fine to coarse gravel, brown, moist, no odor.	SW		84					
		13.0' - 14.7': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, brown, moist, no odor.	SW				0.2	FB-1-14.0		
15										

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 3/4" (temp)	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010" (temp)	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): 18 - 23	Boring Abandonment: Bentonite	Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1125
Date/Time Completed: 3/20/18 @ 1250
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.2
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 23

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
15		15.0' - 16.2': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, brown, moist, no odor.	SW							
		16.2' - 18.9": Well-graded SAND with gravel (50% sand, 45% gravel, 5% silt) fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	SW		78		0.3	FB-1-16.0	x	≡
20		20.0' - 25.0': No recovery; cobbles and gravel lodged in sample core.			0			RGW-FB-1		Screen
25										

Monument Type: NA

Casing Diameter (inches): 3/4" (temp)

Screen Slot Size (inches): 0.010" (temp)

Screened Interval (ft bgs): 18 - 23

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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1400 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/20/18 @ 1535 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 20
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 24
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 - 5.0: Cleared for utilities, no recovery.								
5		5.0' - 5.5': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, brown, moist, no odor.	SW					FB-3-5.0	x	
		5.5' - 8.9': Well-graded SAND (100% sand) fine to coarse sand, trace coarse gravel, brown, moist, no odor.	SW							
					78		0.2	FB-3-8.0		Casing
10		10.0' - 15.0': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, trace cobbles, brown, moist, no odor.	SW							
					100					
							0.2	FB-3-14.0		
15										

Well Construction Information

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 3/4" (temp)	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010" (temp)	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): 14 - 24	Boring Abandonment: Bentonite	Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1400 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/20/18 @ 1535 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 20
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 24
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
15		15.0' - 20.0': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, trace cobbles, brown, moist, no odor. Wet at 20.0'.	SW		100		1.3	FB-3-19.0	x	
20		20.0' - 21.8': Well-graded SAND with gravel (80% sand, 20% gravel) fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	SW				0.3	RGW-FB-3 FB-3-21.5		Screen
25					36					

Monument Type: NA

Casing Diameter (inches): 3/4" (temp)

Screen Slot Size (inches): 0.010" (temp)

Screened Interval (ft bgs): 14 - 24

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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1540 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/20/18 @ 1700 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 15
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 22.5
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 - 5.0: Cleared for utilities, no recovery.								
5		5.0' - 6.2': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, brown, moist, no odor.	SW				0.7	FB-4-5.0	x	
		6.2' - 9.2': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW							
					84		0.3	FB-4-9.0		Casing
10		10.0' - 18.5': Well-graded SAND with gravel (85% sand, 15% gravel) fine to coarse sand, fine to coarse gravel, trace cobbles, trace silt, brown, moist, no odor.	SW							
					100		0.4	FB-4-14.0		
15										

Monument Type: NA	Filter Pack: NA	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 3/4" (temp)	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010" (temp)	Annular Seal: NA	Surveyed Location: X: NA
Screened Interval (ft bgs): 12.5 - 22.5	Boring Abandonment: Bentonite	Y: NA

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/20/18 @ 1540 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/20/18 @ 1700 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 15
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 22.5
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
15										
					70		0.9	FB-4-18.0		Screen
20		20.0' - 25.0': No recovery; cobbles lodged in sample core.						RGW-FB-4		
					0					
25										

Monument Type: NA

Casing Diameter (inches): 3/4" (temp)

Screen Slot Size (inches): 0.010" (temp)

Screened Interval (ft bgs): 12.5 - 22.5

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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/22/18 @ 1005
Date/Time Completed: 3/22/18 @ 1125
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 15
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 14

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' - 5.0': Cleared for utilities, no recovery.								
5		4.0' - 4.5': SILTY SAND with gravel (50% sand, 35% gravel, 15% silt) coarse sand, fine to coarse gravel, dark brown, moist, no odor.	SM				0.7	FB-5-4.0	x	
		5.0' - 5.5': Poorly-graded GRAVEL with sand (80% gravel, 20% sand) medium to coarse sand, medium to coarse gravel, brown, moist, no odor.	GW					FB-5-5.5		Casing
		5.3' - 5.4': Wood debris.	SW							
		5.4' - 5.6': SILT (85% silt, 15% organics) brown, moist, no odor.	ML							
		5.6' - 5.8': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, gray, moist, no odor.	SW			16				
10		10.0' - 12.1': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, gray, moist, no odor.	SW				0.3	FB-5-11.5		
15						42				

Well Construction Information			Ground Surface Elevation (ft): NA	
Monument Type: NA	Filter Pack: NA	Surface Seal: Concrete	Top of Casing Elevation (ft): NA	
Casing Diameter (inches): 3/4" (temp)	Annular Seal: NA	Boring Abandonment: Bentonite	Surveyed Location: X: NA	
Screen Slot Size (inches): 0.010" (temp)			Y: NA	
Screened Interval (ft bgs): 9 - 24				




Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/22/18 @ 1005
Date/Time Completed: 3/22/18 @ 1125
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 15
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 14

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
15		15.0' - 16.7': Well-graded GRAVEL with sand (65% gravel, 30% sand, 5% silt) fine to coarse gravel, fine to coarse sand, moist, gray-brown, no odor.	GW							
		Wet below 16.5'.					0.4	FB-5-16.5	X	Screen
20		20.0' - 21.0': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, gray-brown, wet, no odor.	SW							
		21.0' - 21.6': Well-graded GRAVEL with sand (65% gravel, 30% sand, 5% silt) fine to coarse gravel, fine to coarse sand, wet, gray-brown, no odor.	GW				0.2	FB-5-21.0		
25										

Monument Type: NA

Casing Diameter (inches): 3/4" (temp)

Screen Slot Size (inches): 0.010" (temp)

Screened Interval (ft bgs): 9 - 24

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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/22/18 @ 0830 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/22/18 @ 0955 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 16.7
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 25
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 - 5.0: Cleared for utilities, no recovery.								
5		4.5' - 6.3': Poorly-graded SAND (95% sand, 5% wood debris) fine to medium sand, brown, moist, no odor.	SP		26		0.9	FB-6-5.0 FB-6-6.0	x	
10		10.0' - 10.8': Poorly-graded SAND (90% sand, 5% gravel, 5% wood debris) fine to medium sand, gray, moist, no odor.	SP		46		0.2	FB-6-12.0		Casing
15										

Monument Type: NA	Filter Pack: Pre-pack	Ground Surface Elevation (ft): NA
Casing Diameter (inches): 2"	Surface Seal: Concrete	Top of Casing Elevation (ft): NA
Screen Slot Size (inches): 0.010"	Annular Seal: Bentonite	Surveyed Location: X: NA
Screened Interval (ft bgs): 15 - 25	Boring Abandonment: NA	Y: NA




Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/22/18 @ 0830
Date/Time Completed: 3/22/18 @ 0955
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.7
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 16.0': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW				0.1	FB-6-5.15	X	
		16.0' - 16.7': Well-graded GRAVEL (90% gravel, 10% sand) fine to coarse gravel, gray, wet, no odor.	GW		28					
								RGW-FMW-4		Screen
20		20.0' - 21.8': Well-graded GRAVEL (90% gravel, 10% sand) fine to coarse gravel, gray, wet, no odor.	GW		36			FB-6-21.0		
25										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

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

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 0735
Date/Time Completed: 3/21/18 @ 0950
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.7
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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 - 5.0: Cleared for utilities, no recovery.								Monument Well cap
										Concrete
5		5.0' - 5.5': Poorly-graded SAND with gravel (85% sand, 15% gravel) fine to medium sand, fine to coarse gravel, brown, moist, no odor.	SP				0.3	FMW-4-5.0	x	
		5.5' - 9.0': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		80					
							0.0	FMW-4-9.0		
10		10.0' - 11.7': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		34		0.1	FMW-4-11.5		
15										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 50.1

Top of Casing Elevation (ft): 49.63

Surveyed Location: X: 1327099.931

Y: 245754.665




Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 0735
Date/Time Completed: 3/21/18 @ 0950
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.7
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 16.1': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW							
		16.1' - 16.8': Well-graded GRAVEL with sand (65% gravel, 35% sand) fine to coarse gravel, fine to coarse sand, trace silt, moist, no odor. Wet below 16.7'.	GW		36					Sand
							0.2	FMW-4-18.0	X	
								RGW-FMW-4		
20		20.0' - 21.8': Well-graded SAND with gravel (55% sand, 45% gravel) fine to coarse sand, fine to coarse gravel, trace silt, wet, brown, no odor.	SW		36		0.3	FMW-4-21.0		Screen
25										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 50.1

Top of Casing Elevation (ft): 49.63

Surveyed Location: X: 1327099.931

Y: 245754.665

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1410
Date/Time Completed: 3/21/18 @ 1510
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 17.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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' - 5.0': Cleared for utilities, no recovery.								Monument Well cap
										Concrete
5		5.0' - 5.5': Poorly-graded SAND (90% sand, 10% gravel) fine to medium sand, brown, moist, no odor.	SP				0.1	FMW-5-5.0	x	
		5.5' - 8.2': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		64		0.4	FMW-5-7.5		Bentonite
10		10.0' - 14.0': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		80					
15							0.2	FMW-5-14.0		

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 49.7

Top of Casing Elevation (ft): 49.17

Surveyed Location: X: 1327131.080

Y: 245874.969

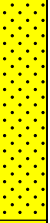


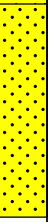
Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1410
Date/Time Completed: 3/21/18 @ 1510
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 17.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 17.5': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		62					
		17.5' - 18.1': Poorly-graded GRAVEL (90% gravel, 10% sand) coarse gravel, trace silt, dark brown, wet, no odor.	GP				0.3	FMW-5-17.0	X	Sand
20		20.0' - 20.9': Poorly-graded GRAVEL with sand (70% gravel, 30% sand) coarse gravel, fine to medium sand, trace silt, brown, wet, no odor.	GP					RGW-FMW-5		Screen
		20.9' - 23.3': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, wet, no odor.	SW		66		0.2	FMW-5-22.0		
25										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 49.7

Top of Casing Elevation (ft): 49.17

Surveyed Location: X: 1327131.080

Y: 245874.969

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1015
Date/Time Completed: 3/21/18 @ 1130
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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 - 5.0: Cleared for utilities, no recovery.								Monument Well cap
										Concrete
5		5.0' - 6.2': Poorly-graded SAND (95% sand, 5% gravel) fine to medium sand, trace cobbles, brown, moist, no odor.	SW				0.2	FMW-6-5.0	x	
		6.2' - 7.8': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, brown, moist, no odor.	SP SW		56		0.2	FMW-6-7.5		
			SW							Bentonite
10		10.0' - 11.3': Poorly-graded SAND (95% sand, 5% gravel) fine to medium sand, trace cobbles, brown, moist, no odor.	SW							
		11.3' - 13.2': Well-graded SAND (90% sand, 10% gravel) fine to coarse sand, brown, moist, no odor.	SP SW		64					
			SW				0.1	FMW-6-13.0		
15										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 48.7

Top of Casing Elevation (ft): 48.51

Surveyed Location: X: 1327238.210

Y: 245906.651


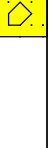



Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1015
Date/Time Completed: 3/21/18 @ 1130
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.6
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 16.6': Poorly-graded SAND (95% sand, 5% gravel) fine to medium sand, trace cobbles, brown, moist, no odor.	SP		42		0.3	FMW-6-16.0	X	Sand
		16.6' - 17.1': Well-graded GRAVEL with sand (70% gravel, 30% sand) fine to coarse gravel, fine to coarse sand, brown, wet, no odor.	SW GW GW							
20		20.0' - 20.7': Poorly-graded SAND (95% sand, 5% gravel) fine to medium sand, trace cobbles, brown, moist, no odor.	SP					RGW-FMW-5		Screen
		20.7' - 22.4': Well-graded GRAVEL with sand (80% gravel, 20% sand) fine to coarse gravel, fine to coarse sand, brown, wet, no odor.	SW GW GW		48		0.3	FMW-6-21.0		
25			GW							

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 48.7

Top of Casing Elevation (ft): 48.51

Surveyed Location: X: 1327238.210

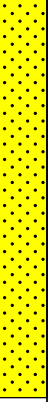
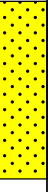
Y: 245906.651

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1230 **Sampler Type:** 5' Macrocore
Date/Time Completed: 3/21/18 @ 1400 **Drive Hammer (lbs.):** NA
Equipment: Geoprobe 7822DT **Depth of Water ATD (ft bgs):** 16.9
Drilling Company: Cascade Drilling **Total Boring Depth (ft bgs):** 25
Drilling Foreman: Reggie **Total Well Depth (ft bgs):** 25
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 - 5.0: Cleared for utilities, no recovery.								Monument Well cap
										Concrete
5		5.0' - 9.5': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		90		0.2	FMW-7-5.0	x	
		Organic odor observed from 7.5' to 9.5'.					0.3	FMW-7-7.5		Bentonite
10										
		10.5' - 12.5': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		50		0.2	FMW-7-13.0		
15										

Monument Type: NA	Filter Pack: Pre-pack	Ground Surface Elevation (ft): 49.2
Casing Diameter (inches): 2"	Surface Seal: Concrete	Top of Casing Elevation (ft): 48.66
Screen Slot Size (inches): 0.010"	Annular Seal: Bentonite	Surveyed Location: X: 1327145.711
Screened Interval (ft bgs): 15 - 25	Boring Abandonment: NA	Y: 245964.644

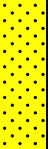

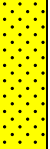

Client: Lennar Multifamily Communities
Project: Marymoor Apartments Property
Location: Redmond, WA

Farallon PN: 1198-005

Logged By: A. Burns

Date/Time Started: 3/21/18 @ 1230
Date/Time Completed: 3/21/18 @ 1400
Equipment: Geoprobe 7822DT
Drilling Company: Cascade Drilling
Drilling Foreman: Reggie
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): NA
Depth of Water ATD (ft bgs): 16.9
Total Boring Depth (ft bgs): 25
Total Well Depth (ft bgs): 25

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
15		15.0' - 16.9': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor. Interpreted as slough.	SW		60					
		16.9' - 18.0': Well-graded GRAVEL with sand (80% gravel, 20% sand), fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	GW				0.2	FMW-7-16.0	X	
20		20.0' - 21.7': Well-graded SAND (95% sand, 5% gravel) fine to coarse sand, brown, moist, no odor.	SW		42					
		21.7' - 22.1': Well-graded GRAVEL with sand (80% gravel, 20% sand), fine to coarse sand, fine to coarse gravel, brown, wet, no odor.	GW				0.2	FMW-7-21.0		
25										

Monument Type: NA

Casing Diameter (inches): 2"

Screen Slot Size (inches): 0.010"

Screened Interval (ft bgs): 15 - 25

Well Construction Information

Filter Pack: Pre-pack

Surface Seal: Concrete

Annular Seal: Bentonite

Boring Abandonment: NA

Ground Surface Elevation (ft): 49.2

Top of Casing Elevation (ft): 48.66

Surveyed Location: X: 1327145.711

Y: 245964.644

ATTACHMENT B
LABORATORY ANALYTICAL REPORTS

SUMMARY OF SUBSURFACE INVESTIGATION

Marymoor Apartments Property
17611 Northeast 70th Street
Redmond, Washington

Farallon PN: 1198-005



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

February 2, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1801-228

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on January 23, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 2, 2018
Samples Submitted: January 23, 2018
Laboratory Reference: 1801-228
Project: 1198-005

Case Narrative

Samples were collected on January 22, 2018 and received by the laboratory on January 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-1-5.0					
Laboratory ID:	01-228-01					
Gasoline	ND	5.8	NWTPH-Gx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	66-130				
Client ID:	PG-2-5.0					
Laboratory ID:	01-228-08					
Gasoline	ND	7.1	NWTPH-Gx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	97	66-130				
Client ID:	PG-3-7.5					
Laboratory ID:	01-228-14					
Gasoline	ND	6.5	NWTPH-Gx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	95	66-130				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Gasoline	ND	5.0	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	66-130				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-228-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				96	97	66-130		



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-1-5.0					
Laboratory ID:	01-228-01					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				
Client ID:	PG-2-5.0					
Laboratory ID:	01-228-08					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	54	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				
Client ID:	PG-3-7.5					
Laboratory ID:	01-228-14					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	54	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	88	50-150				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Diesel Range Organics	ND	25	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	01-228-01									
	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						79	85	50-150		



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-1-5.0					
Laboratory ID:	01-228-01					
Benzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
o-Xylene	0.0014	0.0011	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>78-130</i>				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-2-5.0					
Laboratory ID:	01-228-08					
Benzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0060	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0060	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>108</i>	<i>78-130</i>				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-3-7.5					
Laboratory ID:	01-228-14					
Benzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>111</i>	<i>78-130</i>				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0126S1					
Benzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
<hr/>						
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>78-130</i>				



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

**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:	SB0126S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0476	0.0497	0.0500	0.0500	95	99	58-126	4	20	
Benzene	0.0478	0.0479	0.0500	0.0500	96	96	72-122	0	19	
Trichloroethene	0.0470	0.0468	0.0500	0.0500	94	94	75-120	0	20	
Toluene	0.0489	0.0491	0.0500	0.0500	98	98	78-123	0	19	
Chlorobenzene	0.0466	0.0481	0.0500	0.0500	93	96	75-120	3	18	
Surrogate:										
Dibromofluoromethane					96	95	75-131			
Toluene-d8					96	96	83-130			
4-Bromofluorobenzene					102	101	78-130			



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	01-228-01					
Client ID:	PG-1-5.0					
Arsenic	ND	11	6010D	1-26-18	1-26-18	
Barium	73	2.7	6010D	1-26-18	1-26-18	
Cadmium	ND	0.53	6010D	1-26-18	1-26-18	
Chromium	35	0.53	6010D	1-26-18	1-26-18	
Lead	5.6	5.3	6010D	1-26-18	1-26-18	
Mercury	ND	0.27	7471B	1-29-18	1-29-18	
Selenium	ND	11	6010D	1-26-18	1-26-18	
Silver	ND	1.1	6010D	1-26-18	1-26-18	

Lab ID:	01-228-08					
Client ID:	PG-2-5.0					
Arsenic	ND	11	6010D	1-26-18	1-26-18	
Barium	56	2.7	6010D	1-26-18	1-26-18	
Cadmium	ND	0.53	6010D	1-26-18	1-26-18	
Chromium	28	0.53	6010D	1-26-18	1-26-18	
Lead	ND	5.3	6010D	1-26-18	1-26-18	
Mercury	ND	0.27	7471B	1-29-18	1-29-18	
Selenium	ND	11	6010D	1-26-18	1-26-18	
Silver	ND	1.1	6010D	1-26-18	1-26-18	



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-228-14					
Client ID:	PG-3-7.5					
Arsenic	ND	11	6010D	1-26-18	1-26-18	
Barium	48	2.7	6010D	1-26-18	1-26-18	
Cadmium	ND	0.54	6010D	1-26-18	1-26-18	
Chromium	35	0.54	6010D	1-26-18	1-26-18	
Lead	ND	5.4	6010D	1-26-18	1-26-18	
Mercury	ND	0.27	7471B	1-29-18	1-29-18	
Selenium	ND	11	6010D	1-26-18	1-26-18	
Silver	ND	1.1	6010D	1-26-18	1-26-18	



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0126SM1&MB0129S1

Analyte	Method	Result	PQL
Arsenic	6010D	ND	10
Barium	6010D	ND	2.5
Cadmium	6010D	ND	0.50
Chromium	6010D	ND	0.50
Lead	6010D	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010D	ND	10
Silver	6010D	ND	1.0



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-228-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	52.8	57.3	8	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	26.1	26.2	0	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: February 2, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-228
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-228-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	93.0	93	98.0	98	5	
Barium	100	160	107	157	104	2	
Cadmium	50.0	47.2	94	48.2	96	2	
Chromium	100	118	92	118	92	0	
Lead	250	229	92	235	94	3	
Mercury	0.500	0.549	110	0.520	104	5	
Selenium	100	88.4	88	89.8	90	2	
Silver	25.0	20.3	81	21.0	84	3	



Date of Report: February 2, 2018
Samples Submitted: January 23, 2018
Laboratory Reference: 1801-228
Project: 1198-005

% MOISTURE

Date Analyzed: 1-26-18

Client ID	Lab ID	% Moisture
PG-1-5.0	01-228-01	6
PG-2-5.0	01-228-08	6
PG-3-7.5	01-228-14	7





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

2

ENVIRONMENTAL INC.

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

Company:		F-2-21-67				Turnaround Request (in working days)			
Project Number:		1198-065				(Check One)			
Project Name:		Marymoor Apartments Project				<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)			
Project Manager:		P. Kingston				<input type="checkbox"/> _____ (other)			
Sampled by:		AB							
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers				
1	PG-1-5.0	1-22-18	10:50	Soil	NWTPH-HCID				
2	PG-1-7.5		10:55		NWTPH-Gx/BTEX				
3	PG-1-10.0		11:10		NWTPH-Gx	(X)	(X)	(X)	
4	PG-1-15.0		11:20		NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)				
5	PG-1-20.0		11:25		Volatiles 8260C				
6	PG-1-25.0		11:35		Halogenated Volatiles 8260C				
7	PG-1-30.0		11:45		EDB EPA 8011 (Waters Only)				
8	PG-2-5.0		12:25		Semivolatiles 8270D/SIM (with low-level PAHs)				
9	PG-2-10.0		12:35		PAHs 8270D/SIM (low-level)				
10	PG-2-15.0		12:50		PCBs 8082A				
					Organochlorine Pesticides 8081B				
					Organophosphorus Pesticides 8270D/SIM				
					Chlorinated Acid Herbicides 8151A				
					Total RCRA Metals	(X)			
					Total MTCA Metals				
					TCLP Metals				
					HEM (oil and grease) 1664A				
					% Moisture	(X)			
Signature	Company	Date	Time	Comments/Special Instructions					
<i>[Signature]</i>	F2-21-67	1-23-18	6:48	PA will contact for analysis					
<i>[Signature]</i>	QJE	11/23/18	12:00	Added 1/25/18. DS (STA)					
Relinquished									
Received									
Relinquished									
Received									
Relinquished									
Received									
Reviewed/Date				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>					
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>					

Laboratory Number:

01-228



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

Chain of Custody

Page 2 of 2

CIVIL-ENGINEERING INC. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com					
Company:		Turnaround Request (In working days)		Laboratory Number: 01-2228	
Project Number: F202116n		(Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days			
Project Name: Maymac Apartments Phase 4		<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)			
Project Manager: T. Kingston		<input type="checkbox"/> _____ (other)			
Sampled by: A.B.					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	PG-2-20.0	1-22-08	13:06	S&B	5
12	PG-2-25.0		13:30		5
13	PG-3-5.0		13:55		4
14	PG-3-7.5		14:00		5
15	PG-3-10.0		14:15		5
16	PG-3-15.0		14:20		4
17	PG-3-20.0		14:30		5
18	PG-3-25.0		14:45		
19	PG-3-30.0		14:55		
Signature: [Handwritten Signature]		Company: Terrellon		Date: 1/23/18	Time: 6:48
Relinquished		Received		Date: 1/23/18	
Relinquished		Received		Time: 1200	
Relinquished		Received			
Relinquished		Received			
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>	



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

February 6, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1801-235

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on January 23, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: February 6, 2018
Samples Submitted: January 23, 2018
Laboratory Reference: 1801-235
Project: 1198-005

Case Narrative

Samples were collected on January 23, 2018 and received by the laboratory on January 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-4-5.0					
Laboratory ID:	01-235-01					
Gasoline	ND	6.5	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	95	66-130				
Client ID:	PG-4-20.0					
Laboratory ID:	01-235-04					
Gasoline	ND	6.3	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-130				
Client ID:	PG-5-5.0					
Laboratory ID:	01-235-07					
Gasoline	ND	6.2	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	66-130				
Client ID:	PG-5-20.0					
Laboratory ID:	01-235-10					
Gasoline	ND	7.0	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-130				
Client ID:	PG-6-5.0					
Laboratory ID:	01-235-13					
Gasoline	ND	11	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-130				
Client ID:	PG-6-20.0					
Laboratory ID:	01-235-16					
Gasoline	ND	6.5	NWTPH-Gx	1-26-18	1-29-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	82	66-130				



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Gasoline	ND	5.0	NWTPH-Gx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	66-130				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-228-01							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				96	97	66-130		



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-4-5.0					
Laboratory ID:	01-235-01					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil	100	53	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	84	50-150				

Client ID:	PG-4-20.0					
Laboratory ID:	01-235-04					
Diesel Range Organics	ND	30	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	PG-5-5.0					
Laboratory ID:	01-235-07					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	76	50-150				

Client ID:	PG-5-20.0					
Laboratory ID:	01-235-10					
Diesel Range Organics	ND	31	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	62	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	68	50-150				

Client ID:	PG-6-5.0					
Laboratory ID:	01-235-13					
Diesel Range Organics	ND	39	NWTPH-Dx	1-26-18	1-26-18	U1
Lube Oil Range Organics	230	63	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	79	50-150				

Client ID:	PG-6-12.5					
Laboratory ID:	01-235-14					
Diesel Range Organics	ND	27	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				



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 Laboratory Reference: 1801-235
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NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-20.0					
Laboratory ID:	01-235-16					
Diesel Range Organics	ND	30	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	59	NWTPH-Dx	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>88</i>	<i>50-150</i>				



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 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0126S1					
Diesel Range Organics	ND	25	NWTPH-Dx	1-26-18	1-26-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	1-26-18	1-26-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	89	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	01-228-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				79	85	50-150		



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 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-4-5.0					
Laboratory ID:	01-235-01					
Benzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>113</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>112</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>118</i>	<i>78-130</i>				



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VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-4-20.0					
Laboratory ID:	01-235-04					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	1-26-18	1-26-18	
Chloromethane	ND	0.0070	EPA 8260C	1-26-18	1-26-18	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroethane	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Acetone	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Iodomethane	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Carbon Disulfide	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Methylene Chloride	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Methyl t-Butyl Ether	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Vinyl Acetate	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Butanone	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Bromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroform	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Benzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Trichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chloroethyl Vinyl Ether	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Methyl Isobutyl Ketone	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	



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

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

Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
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 Project: 1198-005

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-4-20.0					
Laboratory ID:	01-235-04					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Hexanone	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Styrene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromoform	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Isopropylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
n-Propylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3,5-Trimethylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
tert-Butylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trimethylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
sec-Butylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
p-Isopropyltoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
n-Butylbenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromo-3-chloropropane	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Hexachlorobutadiene	ND	0.0056	EPA 8260C	1-26-18	1-26-18	
Naphthalene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>78-130</i>				



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 Laboratory Reference: 1801-235
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-5-5.0					
Laboratory ID:	01-235-07					
Benzene	ND	0.0013	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0063	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0013	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0063	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0013	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>123</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>116</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>116</i>	<i>78-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-5-20.0					
Laboratory ID:	01-235-10					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	1-26-18	1-26-18	
Chloromethane	ND	0.0069	EPA 8260C	1-26-18	1-26-18	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroethane	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Iodomethane	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
Methylene Chloride	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroform	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Trichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chloroethyl Vinyl Ether	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-5-20.0					
Laboratory ID:	01-235-10					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromoform	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
Bromobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromo-3-chloropropane	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Hexachlorobutadiene	ND	0.0055	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>106</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>114</i>	<i>78-130</i>				



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VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-5.0					
Laboratory ID:	01-235-13					
Benzene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	0.0016	0.0012	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0059	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0012	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>114</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>114</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>78-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-12.5					
Laboratory ID:	01-235-14					
Dichlorodifluoromethane	ND	0.0014	EPA 8260C	1-26-18	1-26-18	
Chloromethane	ND	0.0068	EPA 8260C	1-26-18	1-26-18	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroethane	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Iodomethane	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
Methylene Chloride	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroform	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Trichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chloroethyl Vinyl Ether	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-12.5					
Laboratory ID:	01-235-14					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromoform	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
Bromobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromo-3-chloropropane	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Hexachlorobutadiene	ND	0.0054	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>107</i>	<i>78-130</i>				



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

VOLATILES EPA 8260C

Page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-20.0					
Laboratory ID:	01-235-16					
Dichlorodifluoromethane	ND	0.0015	EPA 8260C	1-26-18	1-26-18	
Chloromethane	ND	0.0072	EPA 8260C	1-26-18	1-26-18	
Vinyl Chloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroethane	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
Trichlorofluoromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Iodomethane	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
Methylene Chloride	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
(trans) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(cis) 1,2-Dichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chloroform	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Carbon Tetrachloride	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Trichloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromomethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromodichloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chloroethyl Vinyl Ether	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
(cis) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
(trans) 1,3-Dichloropropene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	PG-6-20.0					
Laboratory ID:	01-235-16					
1,1,2-Trichloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Tetrachloroethene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Dibromochloromethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromoethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Chlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,1,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Bromoform	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
Bromobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,1,2,2-Tetrachloroethane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichloropropane	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
2-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
4-Chlorotoluene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,3-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,4-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromo-3-chloropropane	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
Hexachlorobutadiene	ND	0.0057	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichlorobenzene	ND	0.0011	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>91</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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
<hr/>						
Laboratory ID:	MB0126S1					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	1-26-18	1-26-18	
Chloromethane	ND	0.0063	EPA 8260C	1-26-18	1-26-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Bromomethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Chloroethane	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Acetone	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Iodomethane	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Carbon Disulfide	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Methylene Chloride	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Methyl t-Butyl Ether	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Vinyl Acetate	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
2-Butanone	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Bromochloromethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Chloroform	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Benzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Trichloroethene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Dibromomethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Methyl Isobutyl Ketone	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Toluene	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	



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

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

Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL

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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0126S1						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
2-Hexanone	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Chlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Ethylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
m,p-Xylene	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
o-Xylene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Styrene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Bromoform	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Isopropylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Bromobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
n-Propylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,3,5-Trimethylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
tert-Butylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trimethylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
sec-Butylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
p-Isopropyltoluene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
n-Butylbenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	1-26-18	1-26-18	
Naphthalene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	1-26-18	1-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>109</i>	<i>78-130</i>				



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

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

Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

**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:	SB0126S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0476	0.0497	0.0500	0.0500	95	99	58-126	4	20	
Benzene	0.0478	0.0479	0.0500	0.0500	96	96	72-122	0	19	
Trichloroethene	0.0470	0.0468	0.0500	0.0500	94	94	75-120	0	20	
Toluene	0.0489	0.0491	0.0500	0.0500	98	98	78-123	0	19	
Chlorobenzene	0.0466	0.0481	0.0500	0.0500	93	96	75-120	3	18	
Surrogate:										
Dibromofluoromethane					96	95	75-131			
Toluene-d8					96	96	83-130			
4-Bromofluorobenzene					102	101	78-130			



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	01-235-01					
Client ID:	PG-4-5.0					
Arsenic	ND	11	6010D	1-26-18	1-26-18	
Barium	58	2.7	6010D	1-26-18	1-26-18	
Cadmium	ND	0.53	6010D	1-26-18	1-26-18	
Chromium	27	0.53	6010D	1-26-18	1-26-18	
Lead	ND	5.3	6010D	1-26-18	1-26-18	
Mercury	ND	0.27	7471B	1-29-18	1-29-18	
Selenium	ND	11	6010D	1-26-18	1-26-18	
Silver	ND	1.1	6010D	1-26-18	1-26-18	

Lab ID:	01-235-07					
Client ID:	PG-5-5.0					
Arsenic	ND	11	6010D	1-26-18	1-26-18	
Barium	43	2.7	6010D	1-26-18	1-26-18	
Cadmium	ND	0.53	6010D	1-26-18	1-26-18	
Chromium	26	0.53	6010D	1-26-18	1-26-18	
Lead	ND	5.3	6010D	1-26-18	1-26-18	
Mercury	ND	0.27	7471B	1-29-18	1-29-18	
Selenium	ND	11	6010D	1-26-18	1-26-18	
Silver	ND	1.1	6010D	1-26-18	1-26-18	



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	01-235-13					
Client ID:	PG-6-5.0					
Arsenic	ND	13	6010D	1-26-18	1-26-18	
Barium	97	3.1	6010D	1-26-18	1-26-18	
Cadmium	ND	0.63	6010D	1-26-18	1-26-18	
Chromium	39	0.63	6010D	1-26-18	1-26-18	
Lead	14	6.3	6010D	1-26-18	1-26-18	
Mercury	ND	0.31	7471B	1-29-18	1-29-18	
Selenium	ND	13	6010D	1-26-18	1-26-18	
Silver	ND	1.3	6010D	1-26-18	1-26-18	



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0126SM1&MB0129S1

Analyte	Method	Result	PQL
Arsenic	6010D	ND	10
Barium	6010D	ND	2.5
Cadmium	6010D	ND	0.50
Chromium	6010D	ND	0.50
Lead	6010D	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010D	ND	10
Silver	6010D	ND	1.0



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-228-08

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	52.8	57.3	8	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	26.1	26.2	0	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: February 6, 2018
 Samples Submitted: January 23, 2018
 Laboratory Reference: 1801-235
 Project: 1198-005

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

Date Extracted: 1-26&29-18

Date Analyzed: 1-26&29-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 01-228-08

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	93.0	93	98.0	98	5	
Barium	100	160	107	157	104	2	
Cadmium	50.0	47.2	94	48.2	96	2	
Chromium	100	118	92	118	92	0	
Lead	250	229	92	235	94	3	
Mercury	0.500	0.549	110	0.520	104	5	
Selenium	100	88.4	88	89.8	90	2	
Silver	25.0	20.3	81	21.0	84	3	



Date of Report: February 6, 2018
Samples Submitted: January 23, 2018
Laboratory Reference: 1801-235
Project: 1198-005

% MOISTURE

Date Analyzed: 1-26-18

Client ID	Lab ID	% Moisture
PG-4-5.0	01-235-01	6
PG-4-20.0	01-235-04	16
PG-5-5.0	01-235-07	6
PG-5-20.0	01-235-10	19
PG-6-5.0	01-235-13	20
PG-6-12.5	01-235-14	6
PG-6-20.0	01-235-16	15





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Onsite Environmental Inc.

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

Chain of Custody

Page

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Turnaround Request (in working days)			Laboratory Number: 01-235	
(Check One)				
<input type="checkbox"/> Same Day	<input type="checkbox"/> 1 Day			
<input type="checkbox"/> 2 Days	<input type="checkbox"/> 3 Days			
<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)				
<input type="checkbox"/> _____ (other)				
Company: <u>For 2/18</u>	Project Number: <u>1198-005</u>	Project Name: <u>Marymoor Apartments Property</u>	Project Manager: <u>F. Kingston</u>	Sampled by: <u>AB</u>
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix
1 PG-4-5.0	PG-4-5.0	Feb-18	8:25	Soil
2 PG-4-10.0	PG-4-10.0		8:35	
3 PG-4-15.0	PG-4-15.0		8:45	
4 PG-4-20.0	PG-4-20.0		8:55	
5 PG-4-25.0	PG-4-25.0		9:05	
6 PG-4-30.0	PG-4-30.0		9:20	
7 PG-5-5.0	PG-5-5.0		9:50	
8 PG-5-10.0	PG-5-10.0		10:00	
9 PG-5-15.0	PG-5-15.0		10:10	
10 PG-5-20.0	PG-5-20.0		10:15	
Relinquished	Signature <u>AB</u>	Company <u>For 2/18</u>	Date <u>1-23-18</u>	Time <u>15:40</u>
Received				
Relinquished				
Received				
Relinquished				
Received				
Reviewed/Date				
Comments/Special Instructions <u>PA will contact for analysis DB</u> <u>PG-4-15.0, PG-5-15.0 and</u> <u>PG-6-15.0 only have 2 VOA's each.</u> <u>(Added 1/25/18 DB STA)</u>				
Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>				
Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>				
Number of Containers				
NWTPH-HCID				
NWTPH-Gx/BTEX				
NWTPH-Gx				
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)				
Volatiles 8260C				
Halogenated Volatiles 8260C <u>BTEX</u>				
EDB EPA 8011 (Waters Only)				
Semivolatiles 8270D/SIM (with low-level PAHs)				
PAHs 8270D/SIM (low-level)				
PCBs 8082A				
Organochlorine Pesticides 8081B				
Organophosphorus Pesticides 8270D/SIM				
Chlorinated Acid Herbicides 8151A				
Total RCRA Metals				
Total MTCA Metals				
TCLP Metals				
HEM (oil and grease) 1664A				
HvOCs 8260				
% Moisture				



Analytical Laboratory Testing Services
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Phone: (425) 883-3881 • www.on-site-env.com

Chain of Custody

22 of

Company: F-2-21/0n					
Project Number: 1198 - 005					
Project Name: Marymoor Apartments Report					
Project Manager: J. Kingston					
Sampled by: AB					
Turnaround Request (in working days) (Check One) <input type="checkbox"/> Same Day <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input type="checkbox"/> (other)					
Laboratory Number: 01-235					
Number of Containers					
NWTPH-HCID					
NWTPH-Gx/BTEX					
NWTPH-Gx					
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)					
Volatiles 8260C BTEX 8260					
Halogenated Volatiles 8260C					
EDB EPA 8011 (Waters Only)					
Semivolatiles 8270D/SIM (with low-level PAHs)					
PAHs 8270D/SIM (low-level)					
PCBs 8082A					
Organochlorine Pesticides 8081B					
Organophosphorus Pesticides 8270D/SIM					
Chlorinated Acid Herbicides 8151A					
Total RCRA Metals					
Total MTCA Metals					
TCLP Metals					
HEM (oil and grease) 1664A					
% Moisture					



**OnSite
Environmental Inc.**

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

April 3, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-186

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 20, 2018.

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

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

Sincerely,

David Baumeister
Project Manager

Enclosures



Date of Report: April 3, 2018
Samples Submitted: March 20, 2018
Laboratory Reference: 1803-186
Project: 1198-005

Case Narrative

Samples were collected on March 20, 2018 and received by the laboratory on March 20, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-5.0					
Laboratory ID:	03-186-01					
Gasoline	ND	4.8	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	98	66-130				
Client ID:	FB-1-5.0					
Laboratory ID:	03-186-02					
Gasoline	ND	5.3	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	105	66-130				
Client ID:	FB-1-17.5					
Laboratory ID:	03-186-05					
Gasoline	ND	3.6	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	100	66-130				
Client ID:	FB-3-5.0					
Laboratory ID:	03-186-07					
Gasoline	ND	6.2	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	102	66-130				
Client ID:	FB-2-5.0					
Laboratory ID:	03-186-08					
Gasoline	ND	5.2	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-130				
Client ID:	FB-2-16.0					
Laboratory ID:	03-186-11					
Gasoline	ND	5.0	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	103	66-130				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-4-5.0					
Laboratory ID:	03-186-12					
Gasoline	ND	6.2	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>104</i>	<i>66-130</i>				
Client ID:	FB-3-19.0					
Laboratory ID:	03-186-15					
Gasoline	ND	4.3	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>102</i>	<i>66-130</i>				
Client ID:	FB-5-4.0					
Laboratory ID:	03-186-17					
Gasoline	6.7	5.4	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>109</i>	<i>66-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327S2					
Gasoline	ND	5.0	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	103	66-130				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-209-03							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				108	102	66-130		



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-5.0					
Laboratory ID:	03-186-01					
Diesel Range Organics	ND	26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	115	50-150				
Client ID:	FB-1-5.0					
Laboratory ID:	03-186-02					
Diesel Range Organics	ND	26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	75	50-150				
Client ID:	FB-1-17.5					
Laboratory ID:	03-186-05					
Diesel Range Organics	ND	27	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				
Client ID:	FB-3-5.0					
Laboratory ID:	03-186-07					
Diesel Range Organics	ND	330	NWTPH-Dx	3-27-18	3-27-18	U1
Lube Oil	3000	530	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	---	50-150				S
Client ID:	FB-2-5.0					
Laboratory ID:	03-186-08					
Diesel Range Organics	ND	27	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	97	50-150				
Client ID:	FB-2-16.0					
Laboratory ID:	03-186-11					
Diesel Range Organics	ND	27	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	89	50-150				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-4-5.0					
Laboratory ID:	03-186-12					
Diesel Range Organics	ND	26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	52	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				
Client ID:	FB-3-19.0					
Laboratory ID:	03-186-15					
Diesel Range Organics	ND	26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	52	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	106	50-150				
Client ID:	FB-5-4.0					
Laboratory ID:	03-186-17					
Diesel Range Organics	68	29	NWTPH-Dx	3-27-18	3-27-18	N
Lube Oil	800	58	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327S1					
Diesel Range Organics	ND	25	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	97	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-186-05									
	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						87	95	50-150		



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-5.0					
Laboratory ID:	03-186-01					
Benzene	ND	0.0012	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0059	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0012	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0024	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0012	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-1-5.0					
Laboratory ID:	03-186-02					
Benzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0049	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-1-17.5					
Laboratory ID:	03-186-05					
Dichlorodifluoromethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-1-17.5					
Laboratory ID:	03-186-05					
1,1,2-Trichloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0015	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0038	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00076	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>103</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-3-5.0					
Laboratory ID:	03-186-07					
Benzene	ND	0.00071	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0035	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00071	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0014	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00071	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>115</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>92</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>88</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-2-5.0					
Laboratory ID:	03-186-08					
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-130</i>				



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VOLATILES EPA 8260C

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-2-16.0					
Laboratory ID:	03-186-11					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	



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Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
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 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-2-16.0					
Laboratory ID:	03-186-11					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>107</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



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 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-4-5.0					
Laboratory ID:	03-186-12					
Benzene	ND	0.0013	EPA 8260C	3-29-18	3-29-18	
Toluene	ND	0.0066	EPA 8260C	3-29-18	3-29-18	
Ethylbenzene	ND	0.0013	EPA 8260C	3-29-18	3-29-18	
m,p-Xylene	ND	0.0026	EPA 8260C	3-29-18	3-29-18	
o-Xylene	ND	0.0013	EPA 8260C	3-29-18	3-29-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>129</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>119</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>119</i>	<i>78-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-3-19.0					
Laboratory ID:	03-186-15					
Dichlorodifluoromethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	



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Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
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 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-3-19.0					
Laboratory ID:	03-186-15					
1,1,2-Trichloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0016	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0041	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00081	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>106</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-5-4.0					
Laboratory ID:	03-186-17					
Benzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0045	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0018	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>109</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>89</i>	<i>78-130</i>				



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 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0327S2					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	



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 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0327S2						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0329S1					
Benzene	ND	0.0010	EPA 8260C	3-29-18	3-29-18	
Toluene	ND	0.0050	EPA 8260C	3-29-18	3-29-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-29-18	3-29-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-29-18	3-29-18	
o-Xylene	ND	0.0010	EPA 8260C	3-29-18	3-29-18	
<hr/>						
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0327S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0497	0.0503	0.0500	0.0500	99	101	58-126	1	20	
Benzene	0.0532	0.0533	0.0500	0.0500	106	107	72-122	0	19	
Trichloroethene	0.0521	0.0514	0.0500	0.0500	104	103	75-120	1	20	
Toluene	0.0515	0.0510	0.0500	0.0500	103	102	78-123	1	19	
Chlorobenzene	0.0489	0.0478	0.0500	0.0500	98	96	75-120	2	18	
Surrogate:										
Dibromofluoromethane					110	107	75-131			
Toluene-d8					105	102	83-130			
4-Bromofluorobenzene					102	99	78-130			



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

VOLATILES by 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:	SB0329S1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0437	0.0434	0.0500	0.0500	87	87	58-126	1	20	
Benzene	0.0531	0.0506	0.0500	0.0500	106	101	72-122	5	19	
Trichloroethene	0.0509	0.0490	0.0500	0.0500	102	98	75-120	4	20	
Toluene	0.0483	0.0473	0.0500	0.0500	97	95	78-123	2	19	
Chlorobenzene	0.0445	0.0428	0.0500	0.0500	89	86	75-120	4	18	
Surrogate:										
Dibromofluoromethane					109	111	75-131			
Toluene-d8					99	104	83-130			
4-Bromofluorobenzene					98	101	78-130			



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	03-186-01					
Client ID:	FMW-4-5.0					
Arsenic	ND	11	6010D	3-27-18	3-27-18	
Barium	74	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.53	6010D	3-27-18	3-27-18	
Chromium	28	0.53	6010D	3-27-18	3-27-18	
Lead	ND	5.3	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	11	6010D	3-27-18	3-27-18	
Silver	ND	1.1	6010D	3-27-18	3-27-18	

Lab ID:	03-186-02					
Client ID:	FB-1-5.0					
Arsenic	ND	11	6010D	3-27-18	3-27-18	
Barium	70	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.53	6010D	3-27-18	3-27-18	
Chromium	29	0.53	6010D	3-27-18	3-27-18	
Lead	ND	5.3	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	11	6010D	3-27-18	3-27-18	
Silver	ND	1.1	6010D	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-186-07					
Client ID:	FB-3-5.0					
Arsenic	ND	11	6010D	3-27-18	3-27-18	
Barium	53	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.53	6010D	3-27-18	3-27-18	
Chromium	48	0.53	6010D	3-27-18	3-27-18	
Lead	ND	5.3	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	11	6010D	3-27-18	3-27-18	
Silver	ND	1.1	6010D	3-27-18	3-27-18	

Lab ID:	03-186-08					
Client ID:	FB-2-5.0					
Arsenic	ND	11	6010D	3-27-18	3-27-18	
Barium	83	2.7	6010D	3-27-18	3-27-18	
Cadmium	ND	0.53	6010D	3-27-18	3-27-18	
Chromium	49	0.53	6010D	3-27-18	3-27-18	
Lead	ND	5.3	6010D	3-27-18	3-27-18	
Mercury	ND	0.27	7471B	3-27-18	3-27-18	
Selenium	ND	11	6010D	3-27-18	3-27-18	
Silver	ND	1.1	6010D	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
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**TOTAL METALS
 EPA 6010D/7471B**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-186-12					
Client ID:	FB-4-5.0					
Arsenic	ND	10	6010D	3-27-18	3-27-18	
Barium	58	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.52	6010D	3-27-18	3-27-18	
Chromium	34	0.52	6010D	3-27-18	3-27-18	
Lead	ND	5.2	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	10	6010D	3-27-18	3-27-18	
Silver	ND	1.0	6010D	3-27-18	3-27-18	

Lab ID:	03-186-17					
Client ID:	FB-5-4.0					
Arsenic	ND	12	6010D	3-27-18	3-27-18	
Barium	110	2.9	6010D	3-27-18	3-27-18	
Cadmium	ND	0.58	6010D	3-27-18	3-27-18	
Chromium	53	0.58	6010D	3-27-18	3-27-18	
Lead	13	5.8	6010D	3-27-18	3-27-18	
Mercury	ND	0.29	7471B	3-27-18	3-27-18	
Selenium	ND	12	6010D	3-27-18	3-27-18	
Silver	ND	1.2	6010D	3-27-18	3-27-18	



Date of Report: April 3, 2018
Samples Submitted: March 20, 2018
Laboratory Reference: 1803-186
Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0327SM1&MB0327S1

Analyte	Method	Result	PQL
Arsenic	6010D	ND	10
Barium	6010D	ND	2.5
Cadmium	6010D	ND	0.50
Chromium	6010D	ND	0.50
Lead	6010D	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010D	ND	10
Silver	6010D	ND	1.0



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	54.7	49.9	9	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	39.1	35.2	11	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-186
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	94.9	95	93.3	93	2	
Barium	100	153	99	154	100	1	
Cadmium	50.0	44.4	89	44.4	89	0	
Chromium	100	123	84	121	82	2	
Lead	250	224	90	226	90	1	
Mercury	0.500	0.534	107	0.528	106	1	
Selenium	100	92.1	92	91.4	91	1	
Silver	25.0	19.0	76	18.9	76	0	



Date of Report: April 3, 2018
Samples Submitted: March 20, 2018
Laboratory Reference: 1803-186
Project: 1198-005

% MOISTURE

Date Analyzed: 3-27&28-18

Client ID	Lab ID	% Moisture
FMW-4-5.0	03-186-01	5
FB-1-5.0	03-186-02	5
FB-1-17.5	03-186-05	6
FB-3-5.0	03-186-07	5
FB-2-5.0	03-186-08	6
FB-2-16.0	03-186-11	6
FB-4-5.0	03-186-12	4
FB-3-19.0	03-186-15	4
FB-5-4.0	03-186-17	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





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Chain of Custody

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Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com				Turnaround Request (in working days)		Laboratory Number: 03-186									
Company: <u>FA-2110n</u>				(Check One)											
Project Number: <u>1198-005</u>				<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day											
Project Name: <u>McMoor Apartments Property</u>				<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days											
Project Manager: <u>P. Kingston</u>				<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)											
Sampled by: <u>AB</u>				<input type="checkbox"/> (other)											
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers										
1	FB-MW-4-5.0	3-20-18	9:20	Soil	10										
2	FB-1-5.0		9:50												
3	FB-1-9.35		10:20												
4	FB-1-14.0		10:30												
5	FB-1-17.5		10:35												
6	FB-1-22.0		10:45												
7	FB-3-5.0		11:20												
8	FB-2-5.0		10:15												
9	FB-2-9.0		11:40												
10	FB-2-14.0		11:50												
Signature		Company		Date	Time	Comments/Special Instructions									
<u>[Signature]</u>		<u>FA-2110n</u>		3-20-18	17:42	<u>PM will contact for analysis</u> <u>X-added 3/26/18. DG (STA)</u>									
Relinquished															
Received															
Relinquished															
Received															
Relinquished															
Received															
Reviewed/Date		Reviewed/Date				Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>									
						Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>									



**OnSite
Environmental Inc.**

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Chain of Custody

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Company: <u>FS-2116</u>		Turnaround Request (in working days)		Laboratory Number: <u>03-186</u>	
Project Number: <u>1198-005</u>		<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)			
Project Name: <u>Meymar Apartments Property</u>		<input type="checkbox"/> (other)			
Project Manager: <u>P. Kingston</u>					
Sampled by: <u>AS</u>					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
11	FB-2-16.0	3/20/18	12:00	Soil	1
12	FB-4-5.0		12:15		
13	FB-3-8.0		14:15		
14	FB-3-14.0		14:25		
15	FB-3-19.0		14:40		
16	FB-3-21.5		14:55		
17	FB-5-4.0		15:10		
18	FB-4-9.0		15:50		
19	FB-4-14.0		16:00		
20	FB-4-18.0		16:10		
Signature		Company	Date	Time	Comments/Special Instructions
<u>AS</u>		<u>FS-2116</u>	3/20/18	17:42	<u>See AS-1</u>
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date			
		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>			
		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>			



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April 3, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-187

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 20, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 3, 2018
Samples Submitted: March 20, 2018
Laboratory Reference: 1803-187
Project: 1198-005

Case Narrative

Samples were collected on March 20, 2018 and received by the laboratory on March 20, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-187
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-1					
Laboratory ID:	03-187-01					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	89	66-114				
Client ID:	RGW-FB-3					
Laboratory ID:	03-187-04					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	87	66-114				
Client ID:	RGW-FB-4					
Laboratory ID:	03-187-05					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	90	66-114				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-187
 Project: 1198-005

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0326W1						
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-114				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID: 03-243-02								
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	30	
Toluene	ND	ND	NA	NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA	NA	NA	30	
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				84	92	66-114		

MATRIX SPIKES

Laboratory ID: 03-243-02									
	MS	MSD	MS	MSD		MS	MSD		
Benzene	46.0	48.5	50.0	50.0	ND	92	97	80-120	5 13
Toluene	46.5	48.5	50.0	50.0	ND	93	97	81-117	4 14
Ethyl Benzene	47.3	48.9	50.0	50.0	ND	95	98	81-120	3 12
m,p-Xylene	46.2	47.7	50.0	50.0	ND	92	95	79-122	3 13
o-Xylene	45.5	47.3	50.0	50.0	ND	91	95	81-120	4 11
Surrogate:									
Fluorobenzene						93	94	66-114	



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-187
 Project: 1198-005

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-1					
Laboratory ID:	03-187-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	105	50-150				
Client ID:	RGW-FB-3					
Laboratory ID:	03-187-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	104	50-150				
Client ID:	RGW-FB-4					
Laboratory ID:	03-187-05					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	114	50-150				



Date of Report: April 3, 2018
 Samples Submitted: March 20, 2018
 Laboratory Reference: 1803-187
 Project: 1198-005

**NWTPH-Dx
QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W2					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-229-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
o-Terphenyl				96	103	50-150		



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-1					
Laboratory ID:	03-187-01					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-1					
Laboratory ID:	03-187-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-3					
Laboratory ID:	03-187-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-3					
Laboratory ID:	03-187-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-4					
Laboratory ID:	03-187-05					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-4					
Laboratory ID:	03-187-05					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL

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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0328W1						
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0328W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



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**VOLATILES by 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:	SB0328W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.67	8.57	10.0	10.0	87	86	63-126	1	21	
Benzene	9.60	9.27	10.0	10.0	96	93	78-122	3	19	
Trichloroethene	9.41	9.00	10.0	10.0	94	90	63-120	4	20	
Toluene	9.90	9.46	10.0	10.0	99	95	79-124	5	19	
Chlorobenzene	9.40	8.94	10.0	10.0	94	89	78-120	5	19	
Surrogate:										
Dibromofluoromethane					102	102	75-127			
Toluene-d8					101	102	80-127			
4-Bromofluorobenzene					103	102	78-125			





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 Gasoline.
- 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





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

Chain of Custody

Page 1 of 1

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com					
Company: <u>F2-21kn</u>					
Project Number: <u>1198-005</u>					
Project Name: <u>Meymoor Apartments</u>					
Project Manager: <u>T. Kingdon</u>					
Sampled by: <u>AB</u>					
<div style="text-align: right;">Turnaround Request (in working days)</div> <div style="text-align: center;">(Check One)</div> <div style="display: flex; justify-content: space-between;"><div><input type="checkbox"/> Same Day</div><div><input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)</div><div><input type="checkbox"/> 2 Days</div><div><input type="checkbox"/> 3 Days</div></div> <div style="margin-top: 5px;"><input type="checkbox"/> _____ (other)</div>					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	RGW-FB-1	3-20-18	11:00	Wbk	NWTPH-HCID
2	RGW-FB-2		12:40		NWTPH-Gx/BTEX
3	Tip-Bank-032018		-		NWTPH-Gx
4	RGW-FB-3		15:15		NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)
5	RGW-FB-4		17:00		Volatiles 8260C
					Halogenated Volatiles 8260C
					EDB EPA 8011 (Waters Only)
					Semivolatiles 8270D/SIM (with low-level PAHs)
					PAHs 8270D/SIM (low-level)
					PCBs 8082A
					Organochlorine Pesticides 8081B
					Organophosphorus Pesticides 8270D/SIM
					Chlorinated Acid Herbicides 8151A
					Total RCRA Metals
					Total MTCA Metals
					TCLP Metals
					HEM (oil and grease) 1664A
					% Moisture
Signature: <u>[Signature]</u>					
Company: <u>F2-21kn</u>					
Date: <u>3-20-18</u> Time: <u>1742</u>					
Comments/Special Instructions: <u>PM will contact for analysis.</u>					
<u>X-Added 3/26/18 - DB (STA)</u>					
Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>					
Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>					



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

April 3, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-209

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 21, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DeB' followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 3, 2018
Samples Submitted: March 21, 2018
Laboratory Reference: 1803-209
Project: 1198-005

Case Narrative

Samples were collected on March 21, 2018 and received by the laboratory on March 21, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-18.0					
Laboratory ID:	03-209-03					
Gasoline	ND	5.1	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	108	66-130				
Client ID:	FMW-6-5.0					
Laboratory ID:	03-209-05					
Gasoline	ND	5.4	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	103	66-130				
Client ID:	FMW-6-16.0					
Laboratory ID:	03-209-08					
Gasoline	ND	4.7	NWTPH-Gx	3-27-18	3-28-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	96	66-130				
Client ID:	FMW-7-5.0					
Laboratory ID:	03-209-10					
Gasoline	ND	5.3	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	89	66-130				
Client ID:	FMW-7-17.5					
Laboratory ID:	03-209-13					
Gasoline	ND	4.7	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	93	66-130				
Client ID:	FMW-5-5.0					
Laboratory ID:	03-209-15					
Gasoline	ND	5.3	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	<i>Percent Recovery</i>	<i>Control Limits</i>				
Fluorobenzene	92	66-130				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-5-17.0					
Laboratory ID:	03-209-18					
Gasoline	ND	4.9	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>100</i>	<i>66-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327S4					
Gasoline	ND	5.0	NWTPH-Gx	3-27-18	3-28-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	92	66-130				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-209-08							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	30	
Surrogate:								
Fluorobenzene				96	93	66-130		



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: FMW-4-18.0						
Laboratory ID:	03-209-03					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-30-18	
Lube Oil Range Organics	ND	53	NWTPH-Dx	3-28-18	3-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	90	50-150				
Client ID: FMW-6-5.0						
Laboratory ID:	03-209-05					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-30-18	
Lube Oil	73	52	NWTPH-Dx	3-28-18	3-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID: FMW-6-16.0						
Laboratory ID:	03-209-08					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-30-18	
Lube Oil	55	53	NWTPH-Dx	3-28-18	3-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	91	50-150				
Client ID: FMW-7-5.0						
Laboratory ID:	03-209-10					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	52	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	92	50-150				
Client ID: FMW-7-17.5						
Laboratory ID:	03-209-13					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-30-18	
Lube Oil Range Organics	ND	52	NWTPH-Dx	3-28-18	3-30-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				
Client ID: FMW-5-5.0						
Laboratory ID:	03-209-15					
Diesel Range Organics	ND	26	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	52	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	82	50-150				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-5-17.0					
Laboratory ID:	03-209-18					
Diesel Range Organics	ND	27	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	54	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	<i>91</i>	<i>50-150</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0328S1					
Diesel Range Organics	ND	25	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-28-18	3-28-18	
<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:	03-209-03									
	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						90	89	50-150		



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-18.0					
Laboratory ID:	03-209-03					
Dichlorodifluoromethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-4-18.0					
Laboratory ID:	03-209-03					
1,1,2-Trichloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0047	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00094	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>102</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>99</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-6-5.0					
Laboratory ID:	03-209-05					
Dichlorodifluoromethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-6-5.0					
Laboratory ID:	03-209-05					
1,1,2-Trichloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00096	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 3, 2018
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 Laboratory Reference: 1803-209
 Project: 1198-005

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-6-16.0					
Laboratory ID:	03-209-08					
Dichlorodifluoromethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-6-16.0					
Laboratory ID:	03-209-08					
1,1,2-Trichloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	0.0014	0.00089	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0018	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0044	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00089	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>105</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>97</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-7-5.0					
Laboratory ID:	03-209-10					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-7-5.0					
Laboratory ID:	03-209-10					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-130</i>				



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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-7-17.5					
Laboratory ID:	03-209-13					
Dichlorodifluoromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-7-17.5					
Laboratory ID:	03-209-13					
1,1,2-Trichloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0046	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00093	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>103</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-130</i>				



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 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-5-5.0					
Laboratory ID:	03-209-15					
Benzene	ND	0.00098	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0049	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00098	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00098	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>95</i>	<i>78-130</i>				



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 Project: 1198-005

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Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-5-17.0					
Laboratory ID:	03-209-18					
Dichlorodifluoromethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-5-17.0					
Laboratory ID:	03-209-18					
1,1,2-Trichloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0019	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0048	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.00097	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0327S2						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0327S2						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Soil
 Units: mg/kg

Analyte	Result		Spike Level		Percent		Recovery		RPD	
					Recovery		Limits		RPD	Limit
SPIKE BLANKS										
Laboratory ID:	SB0327S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0497	0.0503	0.0500	0.0500	99	101	58-126	1	20	
Benzene	0.0532	0.0533	0.0500	0.0500	106	107	72-122	0	19	
Trichloroethene	0.0521	0.0514	0.0500	0.0500	104	103	75-120	1	20	
Toluene	0.0515	0.0510	0.0500	0.0500	103	102	78-123	1	19	
Chlorobenzene	0.0489	0.0478	0.0500	0.0500	98	96	75-120	2	18	
Surrogate:										
Dibromofluoromethane					110	107	75-131			
Toluene-d8					105	102	83-130			
4-Bromofluorobenzene					102	99	78-130			



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	03-209-05					
Client ID:	FMW-6-5.0					
Arsenic	ND	10	6010D	3-27-18	3-27-18	
Barium	56	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.52	6010D	3-27-18	3-27-18	
Chromium	43	0.52	6010D	3-27-18	3-27-18	
Lead	ND	5.2	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	10	6010D	3-27-18	3-27-18	
Silver	ND	1.0	6010D	3-27-18	3-27-18	

Lab ID:	03-209-10					
Client ID:	FMW-7-5.0					
Arsenic	ND	10	6010D	3-27-18	3-27-18	
Barium	57	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.52	6010D	3-27-18	3-27-18	
Chromium	40	0.52	6010D	3-27-18	3-27-18	
Lead	ND	5.2	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	10	6010D	3-27-18	3-27-18	
Silver	ND	1.0	6010D	3-27-18	3-27-18	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
Lab ID:	03-209-15					
Client ID:	FMW-5-5.0					
Arsenic	ND	10	6010D	3-27-18	3-27-18	
Barium	75	2.6	6010D	3-27-18	3-27-18	
Cadmium	ND	0.52	6010D	3-27-18	3-27-18	
Chromium	24	0.52	6010D	3-27-18	3-27-18	
Lead	ND	5.2	6010D	3-27-18	3-27-18	
Mercury	ND	0.26	7471B	3-27-18	3-27-18	
Selenium	ND	10	6010D	3-27-18	3-27-18	
Silver	ND	1.0	6010D	3-27-18	3-27-18	



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 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0327SM1&MB0327S1

Analyte	Method	Result	PQL
Arsenic	6010D	ND	10
Barium	6010D	ND	2.5
Cadmium	6010D	ND	0.50
Chromium	6010D	ND	0.50
Lead	6010D	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010D	ND	10
Silver	6010D	ND	1.0



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	54.7	49.9	9	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	39.1	35.2	11	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: April 3, 2018
 Samples Submitted: March 21, 2018
 Laboratory Reference: 1803-209
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	94.9	95	93.3	93	2	
Barium	100	153	99	154	100	1	
Cadmium	50.0	44.4	89	44.4	89	0	
Chromium	100	123	84	121	82	2	
Lead	250	224	90	226	90	1	
Mercury	0.500	0.534	107	0.528	106	1	
Selenium	100	92.1	92	91.4	91	1	
Silver	25.0	19.0	76	18.9	76	0	



Date of Report: April 3, 2018
Samples Submitted: March 21, 2018
Laboratory Reference: 1803-209
Project: 1198-005

% MOISTURE

Date Analyzed: 3-27-18

Client ID	Lab ID	% Moisture
FMW-4-18.0	03-209-03	5
FMW-6-5.0	03-209-05	4
FMW-6-16.0	03-209-08	5
FMW-7-5.0	03-209-10	3
FMW-7-17.5	03-209-13	4
FMW-5-5.0	03-209-15	4
FMW-5-17.0	03-209-18	7





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in method 8260C, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





**Onsite
Environmental Inc.**

Analytical Laboratory Testing Services
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Chain of Custody

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Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____
(other)

Laboratory Number:

03-209

Company: F-2110N
Project Number: 1198-005
Project Name: Marymoor Apartments Property
Project Manager: F. Kingston
Sampled by: AB/YP

Lab ID: _____
Sample Identification: _____
Date Sampled: 3-21-18
Time Sampled: 7:55
Matrix: Soil
Number of Containers: 1

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	
BTEX ONLY	
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	NWTPH-HCID	NWTPH-Gx/BTEX	NWTPH-Gx	NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	Volatiles 8260C	Halogenated Volatiles 8260C	EDB EPA 8011 (Waters Only)	Semivolatiles 8270D/SIM (with low-level PAHs)	PAHs 8270D/SIM (low-level)	PCBs 8082A	Organochlorine Pesticides 8081B	Organophosphorus Pesticides 8270D/SIM	Chlorinated Acid Herbicides 8151A	Total RCRA Metals	Total MTCA Metals	TCLP Metals	HEM (oil and grease) 1664A	% Moisture
1	FMW-4-9.0	3-21-18	7:55	Soil																		
2	FMW-4-11.5		8:05																			
3	FMW-4-18.0		8:10				X	X	X	X												X
4	FMW-4-21.0		8:20																			
5	FMW-6-5.0		8:10				X	X	X	X								X				X
6	FMW-6-7.5		10:15																			
7	FMW-6-13.0		10:25																			
8	FMW-6-16.0		10:35				X	X	X	X												X
9	FMW-6-21.0		10:45																			
10	FMW-7-5.0		10:40				X	X	X	X								X				X

Signature

Company

Date

Time

Comments/Special Instructions

FMW-11 Contact for analysis
X added 3/26/18. DB (STA)

Relinquished	<u>AS</u>	<u>F-2110N</u>	<u>11/04/18</u>	<u>3-21-18</u>	
Received		<u>AS</u>	<u>3/21/18</u>	<u>10:14</u>	
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date					

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



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Chain of Custody

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Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ (other) _____

Laboratory Number:

03-209

Company: F202110N
Project Number: 1198-005
Project Name: Meymoor Apartments Property
Project Manager: F. Kingston
Sampled by: AB/YP

Lab ID Sample Identification
11 FMW-7-8.5
12 FMW-7-11.5
13 FMW-7-17.5
14 FMW-7-21.5
15 FMW-5-5.0
16 FMW-5-7.5
17 FMW-5-14.0
18 FMW-5-17.0
19 FMW-5-22.0
20 Potable Water-032118

Number of Containers

NWTPH-HCID	
NWTPH-Gx/BTEX	
NWTPH-Gx	
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)	
Volatiles 8260C	<u>BTEX only</u>
Halogenated Volatiles 8260C	
EDB EPA 8011 (Waters Only)	
Semivolatiles 8270D/SIM (with low-level PAHs)	
PAHs 8270D/SIM (low-level)	
PCBs 8082A	
Organochlorine Pesticides 8081B	
Organophosphorus Pesticides 8270D/SIM	
Chlorinated Acid Herbicides 8151A	
Total RCRA Metals	
Total MTCA Metals	
TCLP Metals	
HEM (oil and grease) 1664A	
% Moisture	

Date Sampled	Time Sampled	Matrix
3-21-18	12:50	Soil
	12:55	
	13:05	
	13:10	
	8:46	
	14:15	
	14:20	
	14:25	
	14:35	
	9:15	Water

Date	Time	Comments/Special Instructions
3-21-18	16:14	<u>See pg 1.</u>
3/21/18	16:14	<u>X add 3/26</u>

Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished Received Relinquished

Signature _____ Date _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Reviewed/Date _____

Data Package: Standard ☐ Level III ☐ Level IV ☐

Chromatograms with final report ☐ Electronic Data Deliverables (EDDs) ☐



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

April 2, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-229

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 22, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 2, 2018
Samples Submitted: March 22, 2018
Laboratory Reference: 1803-229
Project: 1198-005

Case Narrative

Samples were collected on March 22, 2018 and received by the laboratory on March 22, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: RGW-FMW-5						
Laboratory ID:	03-229-01					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	94	66-114				
Client ID: RGW-FMW-7						
Laboratory ID:	03-229-02					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	93	66-114				
Client ID: RGW-FB-5						
Laboratory ID:	03-229-03					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	91	66-114				



Date of Report: April 2, 2018
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 Laboratory Reference: 1803-229
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-6					
Laboratory ID:	03-229-04					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	93	66-114				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

**NWTPH-Gx/BTEX
 METHOD BLANK QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0326W2					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	86	66-114				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	03-255-01									
	ORIG	DUP								
Benzene	ND	ND	NA	NA		NA	NA	NA	30	
Toluene	ND	ND	NA	NA		NA	NA	NA	30	
Ethyl Benzene	ND	ND	NA	NA		NA	NA	NA	30	
m,p-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
o-Xylene	ND	ND	NA	NA		NA	NA	NA	30	
Gasoline	ND	ND	NA	NA		NA	NA	NA	30	
Surrogate:										
Fluorobenzene						94	94	66-114		

MATRIX SPIKES

Laboratory ID:	03-243-02									
	MS	MSD	MS	MSD		MS	MSD			
Benzene	46.0	48.5	50.0	50.0	ND	92	97	80-120	5	13
Toluene	46.5	48.5	50.0	50.0	ND	93	97	81-117	4	14
Ethyl Benzene	47.3	48.9	50.0	50.0	ND	95	98	81-120	3	12
m,p-Xylene	46.2	47.7	50.0	50.0	ND	92	95	79-122	3	13
o-Xylene	45.5	47.3	50.0	50.0	ND	91	95	81-120	4	11
<i>Surrogate:</i>										
Fluorobenzene						93	94	66-114		



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-5					
Laboratory ID:	03-229-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.42	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	96	50-150				

Client ID:	RGW-FMW-7					
Laboratory ID:	03-229-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	RGW-FB-5					
Laboratory ID:	03-229-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	0.49	0.41	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	102	50-150				

Client ID:	RGW-FB-6					
Laboratory ID:	03-229-04					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W2					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	80	50-150				
DUPLICATE						
Laboratory ID:	03-229-01					
	ORIG	DUP				
Diesel Range	ND	ND	NA	NA	NA	NA
Lube Oil Range	ND	ND	NA	NA	NA	NA
Surrogate:						
o-Terphenyl			96	103	50-150	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		RGW-FMW-5				
Laboratory ID:		03-229-01				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	0.61	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
 page 2 of 2

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-5					
Laboratory ID:	03-229-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>96</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>94</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		RGW-FMW-7				
Laboratory ID:		03-229-02				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	1.3	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	0.22	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-7					
Laboratory ID:	03-229-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
 page 1 of 2

Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-5					
Laboratory ID:	03-229-03					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-5					
Laboratory ID:	03-229-03					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
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 Project: 1198-005

VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-6					
Laboratory ID:	03-229-04					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FB-6					
Laboratory ID:	03-229-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>98</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0328W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0328W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-229
 Project: 1198-005

VOLATILES by 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:	SB0328W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.67	8.57	10.0	10.0	87	86	63-126	1	21	
Benzene	9.60	9.27	10.0	10.0	96	93	78-122	3	19	
Trichloroethene	9.41	9.00	10.0	10.0	94	90	63-120	4	20	
Toluene	9.90	9.46	10.0	10.0	99	95	79-124	5	19	
Chlorobenzene	9.40	8.94	10.0	10.0	94	89	78-120	5	19	
Surrogate:										
Dibromofluoromethane					102	102	75-127			
Toluene-d8					101	102	80-127			
4-Bromofluorobenzene					103	102	78-125			





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





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

Chain of Custody

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

April 3, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-230

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 22, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DeB' followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 3, 2018
Samples Submitted: March 22, 2018
Laboratory Reference: 1803-230
Project: 1198-005

Case Narrative

Samples were collected on March 22, 2018 and received by the laboratory on March 22, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 3, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-230
 Project: 1198-005

NWTPH-Gx

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-6-6.0					
Laboratory ID:	03-230-01					
Gasoline	ND	8.4	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	104	66-130				
Client ID:	FB-6-15.5					
Laboratory ID:	03-230-03					
Gasoline	ND	5.6	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	96	66-130				
Client ID:	FB-5-16.5					
Laboratory ID:	03-230-07					
Gasoline	ND	5.9	NWTPH-Gx	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	92	66-130				



Date of Report: April 3, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-230
 Project: 1198-005

**NWTPH-Gx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327S3					
Gasoline	ND	5.0	NWTPH-Gx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	102	66-130				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-209-05							
	ORIG	DUP						
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				103	104	66-130		



Date of Report: April 3, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-230
 Project: 1198-005

NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-6-6.0					
Laboratory ID:	03-230-01					
Diesel Range Organics	ND	49	NWTPH-Dx	3-28-18	3-28-18	U1
Lube Oil Range Organics	440	68	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				
Client ID:	FB-6-15.5					
Laboratory ID:	03-230-03					
Diesel Range Organics	ND	27	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	54	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	87	50-150				
Client ID:	FB-5-16.5					
Laboratory ID:	03-230-07					
Diesel Range Organics	ND	140	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil	480	280	NWTPH-Dx	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	101	50-150				



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 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0328S1					
Diesel Range Organics	ND	25	NWTPH-Dx	3-28-18	3-28-18	
Lube Oil Range Organics	ND	50	NWTPH-Dx	3-28-18	3-28-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	94	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-209-03							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
<i>o</i> -Terphenyl				90	89	50-150		



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 Project: 1198-005

VOLATILES EPA 8260C

Matrix: Soil
 Units: mg/kg

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-6-6.0					
Laboratory ID:	03-230-01					
Benzene	ND	0.0014	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0068	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0014	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0027	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0014	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-6-15.5					
Laboratory ID:	03-230-03					
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-6-15.5					
Laboratory ID:	03-230-03					
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>101</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-5-16.5					
Laboratory ID:	03-230-07					
Dichlorodifluoromethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	



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VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FB-5-16.5					
Laboratory ID:	03-230-07					
1,1,2-Trichloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0025	EPA 8260C	3-27-18	3-27-18	
o-Xylene	0.0017	0.0013	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0063	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0013	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>102</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>96</i>	<i>78-130</i>				



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 Laboratory Reference: 1803-230
 Project: 1198-005

VOLATILES by 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: MB0327S2						
Dichlorodifluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloromethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Vinyl Chloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Trichlorofluoromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Iodomethane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Methylene Chloride	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
(cis) 1,2-Dichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chloroform	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Carbon Tetrachloride	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Benzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Trichloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromomethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromodichloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chloroethyl Vinyl Ether	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(cis) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Toluene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
(trans) 1,3-Dichloropropene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	



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 Project: 1198-005

VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0327S2						
1,1,2-Trichloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Tetrachloroethene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Dibromochloromethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromoethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Chlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,1,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Ethylbenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
m,p-Xylene	ND	0.0020	EPA 8260C	3-27-18	3-27-18	
o-Xylene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Bromoform	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
Bromobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,1,2,2-Tetrachloroethane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichloropropane	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
2-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
4-Chlorotoluene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,3-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,4-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
1,2-Dibromo-3-chloropropane	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,4-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
Hexachlorobutadiene	ND	0.0050	EPA 8260C	3-27-18	3-27-18	
1,2,3-Trichlorobenzene	ND	0.0010	EPA 8260C	3-27-18	3-27-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>108</i>	<i>75-131</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>83-130</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-130</i>				



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 Laboratory Reference: 1803-230
 Project: 1198-005

VOLATILES by 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:	SB0327S2									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	0.0497	0.0503	0.0500	0.0500	99	101	58-126	1	20	
Benzene	0.0532	0.0533	0.0500	0.0500	106	107	72-122	0	19	
Trichloroethene	0.0521	0.0514	0.0500	0.0500	104	103	75-120	1	20	
Toluene	0.0515	0.0510	0.0500	0.0500	103	102	78-123	1	19	
Chlorobenzene	0.0489	0.0478	0.0500	0.0500	98	96	75-120	2	18	
Surrogate:										
Dibromofluoromethane					110	107	75-131			
Toluene-d8					105	102	83-130			
4-Bromofluorobenzene					102	99	78-130			



Date of Report: April 3, 2018
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 Project: 1198-005

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

Matrix: Soil
 Units: mg/kg (ppm)

Analyte	Result	PQL	EPA Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Lab ID:	03-230-01					
Client ID:	FB-6-6.0					
<hr/>						
Arsenic	ND	14	6010D	3-27-18	3-27-18	
Barium	100	3.4	6010D	3-27-18	3-27-18	
Cadmium	ND	0.68	6010D	3-27-18	3-27-18	
Chromium	56	0.68	6010D	3-27-18	3-27-18	
Lead	14	6.8	6010D	3-27-18	3-27-18	
Mercury	ND	0.34	7471B	3-27-18	3-27-18	
Selenium	ND	14	6010D	3-27-18	3-27-18	
Silver	ND	1.4	6010D	3-27-18	3-27-18	
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Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: MB0327SM1&MB0327S1

Analyte	Method	Result	PQL
Arsenic	6010D	ND	10
Barium	6010D	ND	2.5
Cadmium	6010D	ND	0.50
Chromium	6010D	ND	0.50
Lead	6010D	ND	5.0
Mercury	7471B	ND	0.25
Selenium	6010D	ND	10
Silver	6010D	ND	1.0



Date of Report: April 3, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-230
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Sample Result	Duplicate Result	RPD	PQL	Flags
Arsenic	ND	ND	NA	10	
Barium	54.7	49.9	9	2.5	
Cadmium	ND	ND	NA	0.50	
Chromium	39.1	35.2	11	0.50	
Lead	ND	ND	NA	5.0	
Mercury	ND	ND	NA	0.25	
Selenium	ND	ND	NA	10	
Silver	ND	ND	NA	1.0	



Date of Report: April 3, 2018
 Samples Submitted: March 22, 2018
 Laboratory Reference: 1803-230
 Project: 1198-005

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

Date Extracted: 3-27-18

Date Analyzed: 3-27-18

Matrix: Soil

Units: mg/kg (ppm)

Lab ID: 03-209-10

Analyte	Spike Level	MS	Percent Recovery	MSD	Percent Recovery	RPD	Flags
Arsenic	100	94.9	95	93.3	93	2	
Barium	100	153	99	154	100	1	
Cadmium	50.0	44.4	89	44.4	89	0	
Chromium	100	123	84	121	82	2	
Lead	250	224	90	226	90	1	
Mercury	0.500	0.534	107	0.528	106	1	
Selenium	100	92.1	92	91.4	91	1	
Silver	25.0	19.0	76	18.9	76	0	



Date of Report: April 3, 2018
Samples Submitted: March 22, 2018
Laboratory Reference: 1803-230
Project: 1198-005

% MOISTURE

Date Analyzed: 3-27-18

Client ID	Lab ID	% Moisture
FB-6-6.0	03-230-01	27
FB-6-15.5	03-230-03	8
FB-5-16.5	03-230-07	9





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

April 2, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1803-241

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on March 23, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DeB" followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 2, 2018
Samples Submitted: March 23, 2018
Laboratory Reference: 1803-241
Project: 1198-005

Case Narrative

Samples were collected on March 23, 2018 and received by the laboratory on March 23, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-6					
Laboratory ID:	03-241-01					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 94 66-114

Client ID:	RGW-FMW-4					
Laboratory ID:	03-241-02					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	

Surrogate: *Percent Recovery* *Control Limits*
Fluorobenzene 94 66-114



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

**NWTPH-Gx/BTEX
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0326W2					
Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Toluene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Ethyl Benzene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
m,p-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
o-Xylene	ND	1.0	EPA 8021B	3-26-18	3-26-18	
Gasoline	ND	100	NWTPH-Gx	3-26-18	3-26-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	86	66-114				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-255-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene				94	94	66-114		

MATRIX SPIKES

Laboratory ID:	03-243-02									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	46.0	48.5	50.0	50.0	ND	92	97	80-120	5	13
Toluene	46.5	48.5	50.0	50.0	ND	93	97	81-117	4	14
Ethyl Benzene	47.3	48.9	50.0	50.0	ND	95	98	81-120	3	12
m,p-Xylene	46.2	47.7	50.0	50.0	ND	92	95	79-122	3	13
o-Xylene	45.5	47.3	50.0	50.0	ND	91	95	81-120	4	11
Surrogate:										
Fluorobenzene					93	94	66-114			



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-6					
Laboratory ID:	03-241-01					
Diesel Range Organics	ND	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	92	50-150				
Client ID:	RGW-FMW-4					
Laboratory ID:	03-241-02					
Diesel Range Organics	0.35	0.26	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
o-Terphenyl	91	50-150				



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0327W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	3-27-18	3-27-18	
Lube Oil Range Organics	ND	0.25	NWTPH-Dx	3-27-18	3-27-18	
Surrogate:	Percent Recovery	Control Limits				
<i>o</i> -Terphenyl	80	50-150				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	03-255-01							
	ORIG	DUP						
Diesel Range	ND	ND	NA	NA	NA	NA	NA	
Lube Oil Range	ND	ND	NA	NA	NA	NA	NA	
Surrogate:								
<i>o</i> -Terphenyl				85	88	50-150		



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		RGW-FMW-6				
Laboratory ID:		03-241-01				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-6					
Laboratory ID:	03-241-01					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	96	75-127				
<i>Toluene-d8</i>	98	80-127				
<i>4-Bromofluorobenzene</i>	96	78-125				



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

VOLATILES EPA 8260C
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		RGW-FMW-4				
Laboratory ID:		03-241-02				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

VOLATILES EPA 8260C
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	RGW-FMW-4					
Laboratory ID:	03-241-02					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

VOLATILES EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0328W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloromethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Vinyl Chloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Iodomethane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Methylene Chloride	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chloroform	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Trichloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromomethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromodichloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	3-28-18	3-28-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	3-28-18	3-28-18	



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

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

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0328W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Tetrachloroethene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Dibromochloromethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Chlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Bromoform	ND	1.0	EPA 8260C	3-28-18	3-28-18	
Bromobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	3-28-18	3-28-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	3-28-18	3-28-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	3-28-18	3-28-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>100</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>101</i>	<i>78-125</i>				



Date of Report: April 2, 2018
 Samples Submitted: March 23, 2018
 Laboratory Reference: 1803-241
 Project: 1198-005

**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:	SB0328W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	8.67	8.57	10.0	10.0	87	86	63-126	1	21	
Benzene	9.60	9.27	10.0	10.0	96	93	78-122	3	19	
Trichloroethene	9.41	9.00	10.0	10.0	94	90	63-120	4	20	
Toluene	9.90	9.46	10.0	10.0	99	95	79-124	5	19	
Chlorobenzene	9.40	8.94	10.0	10.0	94	89	78-120	5	19	
Surrogate:										
Dibromofluoromethane					102	102	75-127			
Toluene-d8					101	102	80-127			
4-Bromofluorobenzene					103	102	78-125			





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





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

Chain of Custody

Page 1 of 1

Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com					
Turnaround Request (in working days)					
(Check One) <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> _____ (other)					
Company: F&E/Elon					
Project Number: 1198-005					
Project Name: Weyerhaeuser Apartment Property					
Project Manager: P. Kingston					
Sampled by: AB					
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1 RGLW-FMW-4		3-23-18	11:30	Water	7
2 RGLW-FMW-4		↓	14:15	↓	↓
<div style="text-align: center;">AB</div>					
NWTPH-HCID					
NWTPH-Gx/BTEX					
NWTPH-Gx					
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)					
Volatiles 8260C					
Halogenated Volatiles 8260C					
EDB EPA 8011 (Waters Only)					
Semivolatiles 8270D/SIM (with low-level PAHs)					
PAHs 8270D/SIM (low-level)					
PCBs 8082A					
Organochlorine Pesticides 8081B					
Organophosphorus Pesticides 8270D/SIM					
Chlorinated Acid Herbicides 8151A					
Total RCRA Metals					
Total MTCA Metals					
TCPL Metals					
HEM (oil and grease) 1664A					
% Moisture					
Relinquished		Signature		Company	
Received		[Signature]		Fuller	
Relinquished		[Signature]		F&E/Elon	
Received		[Signature]		Date	
Relinquished		[Signature]		Time	
Received		[Signature]		Comments/Special Instructions	
Relinquished		[Signature]		PM will contact for analysis. X - Added 3/26/18. DB (STP)	
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
Reviewed/Date		Reviewed/Date		Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>	



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

April 19, 2018

Pete Kingston
Farallon Consulting
1809 7th Ave., Suite 1111
Seattle, WA 98101

Re: Analytical Data for Project 1198-005
Laboratory Reference No. 1804-139

Dear Pete:

Enclosed are the analytical results and associated quality control data for samples submitted on April 12, 2018.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DeB' followed by a stylized flourish.

David Baumeister
Project Manager

Enclosures



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

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

Date of Report: April 19, 2018
Samples Submitted: April 12, 2018
Laboratory Reference: 1804-139
Project: 1198-005

Case Narrative

Samples were collected on April 12, 2018 and received by the laboratory on April 12, 2018. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: FMW-07-20180412						
Laboratory ID: 04-139-01						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	

Surrogate: Percent Recovery Control Limits
 Fluorobenzene 110 66-114

Client ID: FMW-06-20180412						
Laboratory ID: 04-139-02						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	

Surrogate: Percent Recovery Control Limits
 Fluorobenzene 109 66-114

Client ID: FMW-05-20180412						
Laboratory ID: 04-139-03						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	

Surrogate: Percent Recovery Control Limits
 Fluorobenzene 107 66-114



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID: MW-2-20180412						
Laboratory ID: 04-139-04						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>109</i>	<i>66-114</i>				

Client ID: FMW-04-20180412						
Laboratory ID: 04-139-05						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>110</i>	<i>66-114</i>				

Client ID: MW-3-20180412						
Laboratory ID: 04-139-06						
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>111</i>	<i>66-114</i>				



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Gx/BTEX

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20180412					
Laboratory ID:	04-139-07					
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Fluorobenzene</i>	<i>102</i>	<i>66-114</i>				



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Gx/BTEX QUALITY CONTROL

Matrix: Water
 Units: ug/L (ppb)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0413W1					
Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Toluene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Ethyl Benzene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
m,p-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
o-Xylene	ND	1.0	EPA 8021B	4-13-18	4-13-18	
Gasoline	ND	100	NWTPH-Gx	4-13-18	4-13-18	
Surrogate:	Percent Recovery	Control Limits				
Fluorobenzene	112	66-114				

Analyte	Result	Spike Level	Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE								
Laboratory ID:	04-139-01							
	ORIG	DUP						
Benzene	ND	ND	NA	NA	NA	NA	NA	30
Toluene	ND	ND	NA	NA	NA	NA	NA	30
Ethyl Benzene	ND	ND	NA	NA	NA	NA	NA	30
m,p-Xylene	ND	ND	NA	NA	NA	NA	NA	30
o-Xylene	ND	ND	NA	NA	NA	NA	NA	30
Gasoline	ND	ND	NA	NA	NA	NA	NA	30
Surrogate:								
Fluorobenzene			110	108	66-114			

MATRIX SPIKES

Laboratory ID:	04-139-01									
	MS	MSD	MS	MSD	MS	MSD				
Benzene	47.1	48.0	50.0	50.0	ND	94	96	80-120	2	13
Toluene	47.9	48.5	50.0	50.0	ND	96	97	81-117	1	14
Ethyl Benzene	48.8	49.4	50.0	50.0	ND	98	99	81-120	1	12
m,p-Xylene	47.6	48.1	50.0	50.0	ND	95	96	79-122	1	13
o-Xylene	47.2	47.4	50.0	50.0	ND	94	95	81-120	0	11
Surrogate:										
Fluorobenzene			95	98	66-114					



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	FMW-07-20180412					
Laboratory ID:	04-139-01					
Diesel Range Organics	ND	0.25	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	93	50-150				

Client ID:	FMW-06-20180412					
Laboratory ID:	04-139-02					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	85	50-150				

Client ID:	FMW-05-20180412					
Laboratory ID:	04-139-03					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Client ID:	MW-2-20180412					
Laboratory ID:	04-139-04					
Diesel Range Organics	ND	0.25	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	FMW-04-20180412					
Laboratory ID:	04-139-05					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	95	50-150				

Client ID:	MW-3-20180412					
Laboratory ID:	04-139-06					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	103	50-150				



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20180412					
Laboratory ID:	04-139-07					
Diesel Range Organics	ND	0.26	NWTPH-Dx	4-16-18	4-17-18	
Lube Oil Range Organics	ND	0.41	NWTPH-Dx	4-16-18	4-17-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	94	50-150				



Date of Report: April 19, 2018
 Samples Submitted: April 12, 2018
 Laboratory Reference: 1804-139
 Project: 1198-005

**NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
METHOD BLANK						
Laboratory ID:	MB0416W1					
Diesel Range Organics	ND	0.25	NWTPH-Dx	4-16-18	4-16-18	
Lube Oil Range Organics	ND	0.40	NWTPH-Dx	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>o-Terphenyl</i>	86	50-150				

Analyte	Result		Spike Level		Source Result	Percent Recovery	Recovery Limits	RPD	RPD Limit	Flags
DUPLICATE										
Laboratory ID:	04-139-01									
	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						93	94	50-150		



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 Project: 1198-005

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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-07-20180412				
Laboratory ID:		04-139-01				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	0.89	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	0.20	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-07-20180412				
Laboratory ID:		04-139-01				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>96</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-06-20180412				
Laboratory ID:		04-139-02				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-06-20180412				
Laboratory ID:		04-139-02				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>99</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-05-20180412				
Laboratory ID:		04-139-03				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-05-20180412				
Laboratory ID:		04-139-03				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>93</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MW-2-20180412				
Laboratory ID:		04-139-04				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	0.64	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-2-20180412					
Laboratory ID:	04-139-04					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>97</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-04-20180412				
Laboratory ID:		04-139-05				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		FMW-04-20180412				
Laboratory ID:		04-139-05				
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>100</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>97</i>	<i>78-125</i>				



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Matrix: Water

Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MW-3-20180412				
Laboratory ID:		04-139-06				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-3-20180412					
Laboratory ID:	04-139-06					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>94</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>101</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>100</i>	<i>78-125</i>				



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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:		MW-1-20180412				
Laboratory ID:		04-139-07				
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Client ID:	MW-1-20180412					
Laboratory ID:	04-139-07					
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>95</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>98</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Matrix: Water
 Units: ug/L

Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
<hr/>						
Laboratory ID:	MB0416W1					
Dichlorodifluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloromethane	ND	1.4	EPA 8260C	4-16-18	4-16-18	
Vinyl Chloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromomethane	ND	0.83	EPA 8260C	4-16-18	4-16-18	
Chloroethane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Trichlorofluoromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Iodomethane	ND	4.0	EPA 8260C	4-16-18	4-16-18	
Methylene Chloride	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(trans) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(cis) 1,2-Dichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chloroform	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Carbon Tetrachloride	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Trichloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromomethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromodichloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chloroethyl Vinyl Ether	ND	1.0	EPA 8260C	4-16-18	4-16-18	
(cis) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
(trans) 1,3-Dichloropropene	ND	0.20	EPA 8260C	4-16-18	4-16-18	



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VOLATILES by EPA 8260C
METHOD BLANK QUALITY CONTROL
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Analyte	Result	PQL	Method	Date Prepared	Date Analyzed	Flags
Laboratory ID: MB0416W1						
1,1,2-Trichloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Tetrachloroethene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Dibromochloromethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromoethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Chlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,1,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Bromoform	ND	1.0	EPA 8260C	4-16-18	4-16-18	
Bromobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,1,2,2-Tetrachloroethane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichloropropane	ND	0.20	EPA 8260C	4-16-18	4-16-18	
2-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
4-Chlorotoluene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,3-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,4-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
1,2-Dibromo-3-chloropropane	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,4-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
Hexachlorobutadiene	ND	1.0	EPA 8260C	4-16-18	4-16-18	
1,2,3-Trichlorobenzene	ND	0.20	EPA 8260C	4-16-18	4-16-18	
<i>Surrogate:</i>	<i>Percent Recovery</i>	<i>Control Limits</i>				
<i>Dibromofluoromethane</i>	<i>99</i>	<i>75-127</i>				
<i>Toluene-d8</i>	<i>104</i>	<i>80-127</i>				
<i>4-Bromofluorobenzene</i>	<i>98</i>	<i>78-125</i>				



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 Project: 1198-005

VOLATILES by EPA 8260C
SB/SBD QUALITY CONTROL

Matrix: Water

Units: ug/L

Analyte	Result		Spike Level		Percent Recovery		Recovery	RPD	RPD	Flags
					Recovery	Limits	Limit			
SPIKE BLANKS										
Laboratory ID:	SB0416W1									
	SB	SBD	SB	SBD	SB	SBD				
1,1-Dichloroethene	9.08	8.90	10.0	10.0	91	89	63-126	2	21	
Benzene	9.95	9.70	10.0	10.0	100	97	78-122	3	19	
Trichloroethene	9.67	9.69	10.0	10.0	97	97	63-120	0	20	
Toluene	10.2	10.1	10.0	10.0	102	101	79-124	1	19	
Chlorobenzene	8.69	8.71	10.0	10.0	87	87	78-120	0	19	
Surrogate:										
Dibromofluoromethane					99	99	75-127			
Toluene-d8					102	102	80-127			
4-Bromofluorobenzene					99	97	78-125			





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

Tared Kerr

(Check One)

☐ Same Day ☐ 1 Day



☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)
(TPH analysis 5 Days)

☐ _____ (other)

Turnaround Request
(in working days)

Laboratory Number: **04-139**

Company: Fallon			<input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day		
Project Number: 1198-005			<input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days		
Project Name: Marymoor Apartment Community			<input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days)		
Project Manager: Pete Kingston			<input type="checkbox"/>		
Sampled by: Jared Kerr			(other) _____		
Lab ID	Sample Identification	Date Sampled	Time Sampled	Matrix	Number of Containers
1	FMW-07-20180412	4/12/18	1110	water	7
2	FMW-06-20180412		1210		
3	FMW-05-20180412		1300		
4	MW-2-20180412		1350		
5	FMW-04-20180412		1500		
6	MW-3-2018 0412		1550		
7	MW-1-2018 0412		1640		
NWTPH-HCID					
NWTPH-Gx/BTEX					
NWTPH-Gx					
NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up)					
Volatiles 8260C					
Halogenated Volatiles 8260C					
EDB EPA 8011 (Waters Only)					
Semivolatiles 8270D/SIM (with low-level PAHs)					
PAHs 8270D/SIM (low-level)					
PCBs 8082A					
Organochlorine Pesticides 8081B					
Organophosphorus Pesticides 8270D/SIM					
Chlorinated Acid Herbicides 8151A					
Total RCRA Metals					
Total MTCA Metals					
TCLP Metals					
HEM (oil and grease) 1664A					
% Moisture					
Signature		Company		Date	Time
		Fallon		4/12/18	1745
		CSE		4/12/18	1745
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Received					
Relinquished					
Reviewed/Date		Reviewed/Date		Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/>	
				Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/>	