

REMEDIAL INVESTIGATION REPORT

THOMPSON FIELD SITE PORTION OF KING COUNTY PARCEL NO. 0825069104 REDMOND, WASHINGTON

Submitted by:
Farallon Consulting, L.L.C.
975 5th Avenue Northwest
Issaquah, Washington 98027

Farallon PN: 650-031

For:
Estate of Barbara J. Nelson and WCN GST Non-Exempt Marital Trust No. 2
c/o Nelson Legacy Group, LLC
16508 Northeast 79th Street
Redmond, Washington 98052


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Prepared by:



Stuart Brown
Project Environmental Scientist

Reviewed by:



Clifford T. Schmitt, L.G., L.H.G.
Principal Hydrogeologist

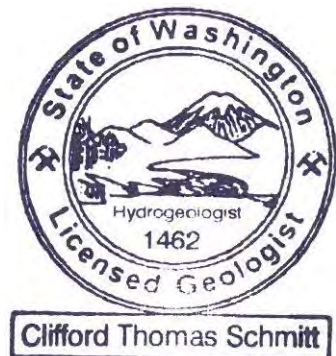




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ACRONYMS AND ABBREVIATIONS

| | |
|----------|---|
| AESI | Associated Earth Sciences Incorporated |
| bgs | below ground surface |
| BTEX | benzene, toluene, ethylbenzene, and xylenes |
| cPAHs | carcinogenic polycyclic aromatic hydrocarbons |
| COPCs | constituents of potential concern |
| DRO | TPH as diesel-range organics |
| E&E | Ecology and Environment, Inc. |
| Ecology | Washington State Department of Ecology |
| EPA | United States Environmental Protection Agency |
| Farallon | Farallon Consulting, L.L.C. |
| GRO | TPH as gasoline-range organics |
| mg/kg | milligrams per kilogram |
| µg/kg | micrograms per kilogram |
| msl | mean sea level |
| MTCA | Washington State Model Toxics Control Act |
| ORO | TPH as oil-range organics |
| PAHs | Polycyclic aromatic hydrocarbons |
| PQL | practical quantitation limit |
| QA | quality assurance |
| QC | quality control |
| RI | remedial investigation |



| | |
|---------------------|---|
| Property | King County Parcel Nos. 0825069012, 0825069067, 0825069013, 0825069102, 0825069103, 0825069104, 0825069105 |
| TEC | toxic equivalent concentration |
| TEE | Terrestrial Ecological Evaluation |
| The Estate | Estate of Barbara J. Nelson and WCN GST Non-Exempt Marital Trust No. 2 |
| Thompson Field | Approximately 12-acre portion of King County Parcel No. 0825069104 |
| Thompson Field Site | Area where hazardous substances have come to be located at concentrations exceeding applicable cleanup levels in soil or groundwater. |
| TPH | Total Petroleum Hydrocarbons |
| VOCs | Volatile Organic Compounds |
| USACE | United States Army Corp of Engineers |
| WAC | Washington Administrative Code |



1.0 INTRODUCTION

Farallon Consulting, L.L.C. (Farallon) has prepared this Remedial Investigation (RI) Report on behalf of the Estate of Barbara J. Nelson and WCN GST Non-Exempt Marital Trust No. 2 (the Estate) for the 12-acre portion of the property at King County Parcel No. 0825069104 in the area known as Thompson Field in Redmond, Washington (herein referred to as Thompson Field) (Figures 1, 2). This RI Report summarizes the results from the RI conducted to characterize the nature and extent of contamination at Thompson Field in accordance with the Washington State Model Toxics Control Act Cleanup Regulation (MTCA), as established in Chapter 173-340 of the Washington Administrative Code (WAC 173-340). Sufficient characterization has been performed to support preparation of a Feasibility Study evaluating remedial alternatives.

As defined under MTCA and Section 020(4) of Chapter 70A.305 of the Revised Code of Washington, a “site” includes all areas where hazardous substances have come to be located at concentrations exceeding MTCA cleanup levels. The results of the RI completed between 2019 and 2021 at Thompson Field indicate there is a localized area of fill material on the western portion of Thompson Field where total carcinogenic polycyclic aromatic hydrocarbons (cPAHs), calculated as a toxic equivalent concentration (TEC) using a method prescribed by MTCA (WAC 173-340-708[e]), exceed the MTCA Method A cleanup level for soil. The calculation is based on a toxicity equivalency factor-weighted sum of concentrations of individual cPAHs.¹ The site is limited to a localized area where cPAHs are present in soil at TECs exceeding the cleanup level, herein referred to as the Thompson Field Site.

In accordance with WAC 173-340-300, a release notification was submitted to Washington State Department of Ecology (Ecology) on behalf of the Estate, reporting a release of hazardous substances to the environment at Thompson Field (Farallon 2020). The release was detected during the course of a preliminary assessment conducted on October 23 and November 11, 2019, by Ecology and Environment, Inc. (E&E) on behalf of the United States Environmental Protection Agency (EPA). In response to the release notification letter, Ecology assigned Facility/Site identification number (ID No.) 8042 and Cleanup Site ID no. 15285 to the Thompson Field Site (Ecology 2020).

While generating the RI Report, Farallon reviewed multiple outside documents including historical records related to King County Parcel Nos. 0825069012, 0825069067, 0825069013, 0825069102, 0825069103, 0825069104, 0825069105 (Property), aerial photos of the Property, the results of the E&E preliminary assessment (E&E 2020), logs of geotechnical test pits completed at the Property (AESI 2018), and multiple environmental documents generated for the Puget Sound region relevant to conditions at the Property. Following a review of outside documents and the results of the subsurface investigations conducted by Farallon, fill material which was the subject of the E&E preliminary assessment was determined to be limited to Thompson Field, and constituents of concern (COCs) were identified solely in fill material in a localized area on the western portion

¹ The cPAHs used to calculate the TEC include benzo(a)pyrene, benzo(a)anthracene, benzo(b)fluoranthene, benzo(j,k)fluoranthene, chrysene, dibenzo(a,h)anthracene, and indeno(1,2,3-cd)pyrene.



of Thompson Field² (Figure 3). Additional information regarding the origin of the Thompson Field fill material is provided in Section 2.2 below.

1.1 PURPOSE AND OBJECTIVES

The purpose of an RI is to collect data necessary to adequately characterize a site for the purpose of developing and evaluating technically feasible cleanup alternatives (WAC 173-340-350(7)). The RI conducted by Farallon, summarized in this report, provides sufficient data to develop the conceptual site model and define the Thompson Field Site boundaries. This information can then be used to prepare a feasibility study that develops and evaluates cleanup action alternatives to enable a cleanup action to be selected for the Thompson Field Site.

1.2 REPORT ORGANIZATION

This RI Report includes the following sections:

- **Section 2**, Background, presents relevant background information pertaining to the Thompson Field Site, including a description of its location and features, and a summary of current and historical uses of Thompson Field and the surrounding area.
- **Section 3**, Remedial Investigation, summarizes the subsurface investigations that together constitute the RI, presents the analytical results for soil and groundwater samples collected at and near the Thompson Field Site, describes the local geology and hydrogeology, describes the nature and extent of contamination at the Thompson Field Site, identifies the known or suspected sources of contamination, and the constituents of potential concern (COPCs).
- **Section 4**, Conceptual Site Model, includes a discussion of the COCs, media of concern, source areas, contaminant fate and transport, an exposure assessment for human and ecological receptors, the results from the site-specific Terrestrial Ecological Evaluation (TEE), and develops cleanup standard for the Thompson Field Site.
- **Section 5**, Summary and Conclusions, summarizes general conclusions of the RI.
- **Section 6**, References, provides a list of the source materials used in preparing this RI Report.
- **Section 7**, Limitations, provides the limitations associated with this RI Report.

² The Thompson Field Site is limited to a localized area where cPAHs are present in soil at TECs exceeding the cleanup level.



2.0 BACKGROUND

This section includes a description of Thompson Field and a summary of current and historical uses of Thompson Field and surrounding properties.

2.1 THOMPSON FIELD PROPERTY DESCRIPTION

Thompson Field comprises the western portion of King County Parcel No. 0825069104 located within the Evans Creek Valley in unincorporated King County, Washington (Figures 2 and 3, Redmond 1997). The coordinates for Thompson Field are 47° 40' 11.78" north and -122° 4' 30.13" west; the Public Land Survey System location is described as the southwestern quarter of the northwestern quarter of Section 08, Township 25 North, Range 6 East. According to the King County Department of Assessments (2021), King County Parcel No. 0825069104 totals 38.14 acres in area; Thompson Field consists of approximately 12 acres within the parcel (Figure 3).

According to the King County Department of Assessments (2021), Thompson Field and the surrounding area are zoned as RA-5 Rural. Residential properties and housing developments are located to the north, east, and west of Thompson Field and the Evans Creek Natural Area is to the south. Evans Creek is located approximately 600 feet to the west. According to the Ecology Well Construction and Licensing Search Tools (2021), one irrigation well is present east and hydraulically cross- or up-gradient of Thompson Field at a higher elevation. Eight monitoring wells are present on Thompson Field (Figure 3).

The Thompson Field Site lies on the western portion of the larger open space referred to as Thompson Field, Thompson Field in turn, is located on the western portion of the Property (Figures 2 and 3). Future land use at the Property includes development of up to 23 building sites for single family homes on the portion of the Property located east of Thompson Field, while Thompson Field will remain as undeveloped permanent open space.

The U.S. Geological Survey (2017) topographic map for Redmond, Washington depicted Thompson Field at an elevation of approximately 80 feet above mean sea level (msl). Topography at Thompson Field is relatively flat-lying, with top-of-monument elevations for monitoring wells at Thompson Field ranging from 66.37 msl at monitoring well FMW-07 to 69.10 msl at monitoring well FMW-05 (Figure 3, Table 1). Regional topography around Thompson Field is relatively flat to the north, west, and south, and a steeply rising hillside is present to the east. Surface water is present in agricultural ditches that surround Thompson Field to the north, east, south, and west. Due to the flat-lying nature of the surface topography at Thompson Field and the Thompson Field Site, no sheet flow runoff to the agricultural ditches is suspected except for very minor locations from the sidewalls of the ditch(es).

Weather in Redmond, Washington is moderated by the city's proximity to Puget Sound. The average low temperature in the winter is approximately 37 degrees Fahrenheit; the average high temperate in the summer is approximately 73 degrees Fahrenheit. An average of 26.11 inches of



rain typically falls in the area between October and March. An average of 7.99 inches of rain typically falls between April and September (Redmond 1997).

2.2 CURRENT AND HISTORICAL USES OF THOMPSON FIELD

Thompson Field currently consists of a grass-covered field, with no structures. Thompson Field was previously used as a hayfield for horses boarded at the property. The land comprising Thompson Field was obtained by the Estate in 1975 and is a portion of the Property, which was purchased by Bill and Barbara Nelson in 1957. Operations at the Property included the raising of cattle and horses (E&E 2020).

Historically, Thompson Field was a forested area, which was cleared of trees sometime after 1975 (E&E 2020). In late 1982 or early 1983, an unknown volume of fill soil from the Interstate 90 tunnel project in the Mount Baker Ridge area of Seattle was placed on Thompson Field to raise the field to its current elevation and create pastureland (E&E 2020).

On March 20, 1984, the United States Army Corp of Engineers (USACE) performed an inspection at Thompson Field to investigate the potential for fill soil having been placed in wetlands adjacent to Evans Creek (E&E 2020). A letter from the USACE dated April 27, 1984, notified Mr. William Nelson that the inspection discovered fill material placed on wetlands adjacent to waters of the United States without a USACE permit (USACE 1984). Following a notification by the USACE on March 26, 1986, a portion of the fill material was removed by the property owners. The fill removal was determined to be satisfactory to address the issue and no further action was anticipated by King County and USACE (E&E 2020).

On February 18, 2015, representatives of Ecology, EPA, USACE, and the National Oceanic and Atmospheric Administration conducted a site visit at Thompson Field to collect soil samples following a report that fill material was placed into wetlands adjacent to the southern portion of Thompson Field (EPA 2016). As a result of the investigation, EPA determined that the fill was placed without a permit on or before January 2010 and was in violation of the Clean Water Act, which resulted in the property owner entering into an Administrative Order on Consent detailing restoration and mitigation requirements at Thompson Field (EPA 2016).

From September 2009 to March 2018, Associated Earth Sciences Incorporated (AESI), completed 48 test pits (SL-1 through SL-17, SLA-1 through SLA-17, EP-1 through EP-10, and IT-1 through IT-4) at the Property to the east of Thompson Field (AESI 2018). Of the 48 test pits completed by AESI, fill soils were encountered at three locations (EP-1, EP-3, and EP-5) to a maximum depth of 3 feet below ground surface (bgs). According to AESI's site figure, the test pits where fill soils were encountered are in wooded portions of the property in the vicinity of historical residential operations. A review of the test pit logs indicates that the fill material at test pit EP-3 was backfill in a utility trench, and the fill material encountered at test pit EP-5 was topsoil or fill.

In 2018, members of the community notified EPA of their concern that imported fill material residing on Thompson Field may contain hazardous substances (E&E 2020). On October 23 and



November 11, 2019, E&E, on behalf of EPA, conducted a preliminary assessment during which soil and reconnaissance groundwater samples were collected from the imported fill and/or native soil at six boring locations (BH01 through BH06) and a boring considered by EPA to be representative of background (BK01³) (Figure 2, Tables 2 through 9) (E&E 2020). The analytical results of the investigation indicated the presence of hazardous substances at concentrations exceeding MTCA Method A cleanup levels in soil at Thompson Field (E&E 2020).

2.3 CURRENT AND HISTORICAL USES OF SURROUNDING AREA

Current uses of properties surrounding Thompson Field are as follows (see Figure 2):

- The north-adjacent property is developed with a 3,300-square-foot private residence.
- The east-adjacent property is owned by the Estate and operated as agricultural fields. A residential development is located further to the east and up a steep hillside.
- The south-adjacent property is undeveloped wetland and is operated as the Evans Creek Natural Area.
- The west-adjacent property is owned by the Estate and developed with a 1,440-square-foot private residence. Farther to the west across 196th Avenue North East is vacant industrial land.

Farallon reviewed historical aerial photographs of Thompson Field and the surrounding area for the years 1943, 1965, 1969, 1977, 1980, 1990, 2006, 2009, 2013, and 2017 (Appendix A). Historically the properties surrounding Thompson Field appear to be primarily undeveloped and wooded from at least 1943 through 1969, with the exception of agricultural operations located to the east and west. In the 1977 aerial photograph, residential homes are visible to the north and east of Thompson Field, with the density of homes increasing through 2017. Adjacent properties appeared similar to the present condition by 2006.

³E&E boring BG01 and associated samples are referenced in Farallon documents as BK01.



3.0 REMEDIAL INVESTIGATION

This section describes the results from the RI for Thompson Field. Multiple subsurface investigations have been conducted at Thompson Field over three years. The subsurface investigations have assessed the condition of soil and groundwater under Thompson Field, and characterized the source, nature, and extent of the hazardous substances under Thompson Field. The investigations indicate that contaminated soil in one distinct area of Thompson Field, which constitutes a ‘site’ under MTCA. These results from the investigations together constitute the RI for the Thompson Field Site, which is limited to the area of contaminated soil.

This section summarizes the subsurface investigations that together constitute the RI, presents the analytical results of soil and groundwater samples collected at and near Thompson Field, describes the local geology and hydrogeology, describes the nature and extent of contamination at the Thompson Field Site, and identifies the source of hazardous substances at the Thompson Field Site.

3.1 SUMMARY OF ENVIRONMENTAL INVESTIGATIONS

Environmental investigations have been conducted by E&E on behalf of EPA and by Farallon on behalf of the Estate. A summary of environmental investigations conducted at Thompson Field by E&E and Farallon is provided below.

Laboratory analytical reports are provided in Appendix B. Borings logs and well construction diagrams are provided in Appendix C.

3.1.1 Environmental Investigations by Others

E&E conducted a preliminary assessment at Thompson Field on behalf of EPA in October and November of 2019 (E&E 2020). E&E advanced four borings (BH01 through BH03, and BK01) using a direct-push drill rig to a maximum depth of 16 feet bgs), and three borings (BH04 through BH06) to a maximum depth of 3 feet bgs using a hand auger (Appendix B, Figures 2 and 3). Reconnaissance groundwater samples were collected from borings BH01, BH02, and BK01. E&E also collected groundwater samples from off-Property monitoring wells located approximately 0.4 mile northwest of Thompson Field. Soil and reconnaissance groundwater samples collected by E&E were analyzed for the following:

- Total petroleum hydrocarbons (TPH) as diesel-range organics (DRO) and oil-range organics (ORO) using Northwest Method NWTPH-Dx;
- TPH as gasoline-range organics (GRO) using Northwest Method NWTPH-Gx;
- Semi-volatile organic compounds including polycyclic aromatic hydrocarbons (PAHs) using EPA Method 8270D;
- Target analyte list metals analyzed using EPA Method 6010D/7471B for soil samples and EPA Method 200.8/7470A for groundwater samples,



- Polychlorinated biphenyls using EPA Method 8082A, and
- Volatile organic compounds (VOCs) using EPA Method 8260C.

Soil and groundwater samples analyzed as part of the Thompson Field preliminary assessment were compared to risk-based screening levels identified by E&E (E&E 2020). Screening levels include MTCA Method A and Method B cleanup levels, and the May 2019 EPA Regional Screening Levels in a residential setting. Additional matrix-specific screening levels included the most current EPA Regional Screening Levels (tap water values) for groundwater samples, and Washington State Background metals concentrations for soil samples (Ecology 1994).

Four target list analyte metals (arsenic, iron, mercury, and selenium), PAHs, dimethyl phthalate, ORO, and four VOCs (2-butanone, acetone, methylene chloride, and m,p-xylene) were detected at concentrations exceeding background levels (E&E 2020). Arsenic and manganese were the only analytes detected in groundwater samples at concentrations exceeding background concentrations.

Aluminum and iron are common earth crust metals, therefore based on EPA Region 10 Policy, the detections of aluminum and iron in soil and groundwater were not discussed in the preliminary assessment (E&E 2020).

Total cPAHs were detected at a TEC of 0.23 milligrams per kilogram (mg/kg) in one soil sample collected from boring BH01 at a depth of 4.5 to 6.0 feet bgs, which exceeded risk-based screening levels identified by E&E that included the MTCA Method A cleanup level of 0.1 mg/kg (E&E 2020). Total cPAHs were detected at TECs less than the MTCA Method A cleanup level in soil samples collected from boring BH01 at depths of 1.5 to 3.0 feet bgs and 8.0 to 10.0 feet bgs (Table 4). Individual cPAHs were not detected at a concentration exceeding laboratory practical quantitation limits (PQLs) in a reconnaissance groundwater sample collected from boring BH01 (Table 8).

Benzo(a)pyrene was detected at a concentration of 0.16 mg/kg, which slightly exceeds the MTCA Method A cleanup level of 0.1 mg/kg, in one soil sample collected from boring BH01 at a depth of 4.5 to 6.0 feet bgs. Benzo(a)pyrene was detected at a concentration less than the MTCA Method A cleanup level and was not detected at a concentration exceeding the laboratory PQL in soil samples collected from boring BH01 at depths of 1.5 to 3.0 feet bgs and 8.0 to 10.0 feet bgs, respectively (Table 4). Benzo(a)pyrene was not detected at a concentration exceeding the laboratory PQL in a reconnaissance groundwater sample collected from boring BH01 (Table 8).

Dimethyl phthalate was detected in multiple soil samples collected at Thompson Field at concentrations exceeding the laboratory PQL, including a concentration of 0.43 mg/kg in a soil sample collected at a depth of 8 to 10 feet bgs from background boring BK01 (E&E 2020). No risk-based screening levels were identified by E&E for dimethyl phthalate.

2-butanone, acetone, m,p-xylene, and methylene chloride were detected at concentrations exceeding the laboratory PQL in one or more soil samples collected at Thompson Field (E&E 2020). Methylene chloride was detected at a concentration of 0.023 mg/kg which exceeds the



MTCA Method A cleanup level of 0.02 mg/kg, in one soil sample collected from boring BH03 at a depth of 4.5 to 6.0 feet bgs. Methylene chloride was the only VOC detected at a concentration exceeding a risk-based screening level.

ORO was detected at a concentration exceeding the laboratory PQL but less than the MTCA Method A cleanup level in two soil samples collected from borings BH02 and BH05 at depths of 0.5 to 2 feet and 1.5 to 2 feet bgs (respectively) (E&E 2020).

Arsenic was reported at concentrations exceeding risk-based screening levels in one or more soil samples collected at Thompson Field, including a detection of 47.1 mg/kg, which exceeds the MTCA Method A cleanup level of 20 mg/kg, in one soil sample collected from native soil in boring BH02 at a depth of 8 to 10 feet bgs. The arsenic detection was “J+” flagged by the laboratory as an estimated quantity due to the reported concentration being less than the sample quantitation limits and for high bias. Arsenic was detected at concentrations less than the MTCA Method A cleanup level in two soil samples collected from the fill material overlaying native soil at this location (Figure 5, Table 5, E&E 2020). Mercury and selenium were detected at concentrations exceeding their lowest risk-based screening levels identified by E&E in soil samples collected at borings BH05 and BH02 (respectively); these concentrations did not exceed MTCA cleanup levels.

Arsenic, aluminum, iron, and manganese were reported in one or more reconnaissance groundwater samples collected at Thompson Field. Arsenic and manganese were detected at elevated concentrations compared to background concentrations identified by E&E (E&E 2020) but did not exceed MTCA cleanup levels. Arsenic and manganese were also detected at elevated concentrations in one or more of the off-site monitoring wells sampled (E&E 2020). E&E determined that concentrations of arsenic and manganese observed in the reconnaissance groundwater samples were likely the result of naturally occurring conditions rather than potential releases at Thompson Field due to placement of fill (E&E 2020).

3.1.2 Subsurface Investigations by Farallon

Farallon reviewed the results from the preliminary assessment completed by E&E, and identified the following data gaps associated with Thompson Field:

- The groundwater flow direction had not been defined at Thompson Field;
- COPCs, defined in further detail in section 3.2, identified in soil during the preliminary assessment were not adequately characterized to assess the occurrence and concentrations at Thompson Field; and
- Metals concentrations in groundwater had not been adequately characterized following detections of aluminum, arsenic, iron, and manganese at concentrations exceeding background concentrations identified by E&E, in the reconnaissance groundwater samples collected from boring BH01, BH02, and BK01.



Farallon conducted additional characterization activities from July 2020 to February 2021 to address the data gaps summarized above. Prior to conducting the field work, Farallon prepared a site-specific Health and Safety Plan as required by Part 1910 of Title 29 of the Code of Federal Regulations and WAC 173-0340-810.

The locations and depths of borings and monitoring wells advanced by Farallon were based on the locations of borings advanced by E&E during the preliminary assessment and the thickness of historical fill placed on Thompson Field.

Soil samples were collected continuously during advancement of borings. A Farallon Geologist observed subsurface conditions and retained soil samples from selected intervals based on field indications of potential contamination or based on historical sample depths where additional analytical data were needed to characterize the depth or lateral extent of contamination. The information recorded on the boring logs included soil types encountered, visual and olfactory evidence of contamination, and volatile organic vapor concentrations as measured using a photoionization detector. The completed boring logs are provided in Appendix B. Soil samples were collected and transferred directly into laboratory-prepared glass sample containers fitted with a Teflon-lined lid in accordance with Farallon's standard sampling procedures.

Groundwater samples from monitoring wells were collected in general accordance with standard EPA low-flow groundwater sampling procedures. Groundwater was extracted through 0.25-inch-diameter tubing inserted down the well casing using a peristaltic pump with a flow rate of less than 300 milliliters per minute until a steady flow was established. Water quality was monitored during purging using a Horiba or YSI multi-parameter meter equipped with a flow-through cell. The water-quality parameters monitored and recorded included temperature, pH, specific conductance, turbidity, oxidation-reduction potential, and dissolved oxygen. The monitoring wells were purged until all parameters stabilized. Monitoring well locations and top of casing elevations were surveyed by a licensed surveyor following the installation of each monitoring well.

Soil and groundwater samples were placed on ice in a cooler under standard chain-of-custody procedures and delivered to OnSite Environmental Inc. of Redmond, Washington for analysis. Quality assurance/quality control (QA/QC) data provided by the analytical laboratory were reviewed by a Farallon QA/QC specialist upon receipt of each analytical laboratory report (Appendix C). QA/QC data included surrogate recovery results, laboratory duplicate results, method blank results, matrix spike and matrix spike duplicate results, and spike blank and spike blank duplicate results. Any QA/QC issues flagged in the laboratory analytical reports were evaluated by the QA/QC specialist and included in the summary tables (Tables 2 through 9). Laboratory-provided electronic data deliverables containing the analytical results and QA/QC data were uploaded directly into Farallon's project database. The contents of the electronic data deliverables were compared to the printed laboratory analytical reports so any discrepancies could be addressed with the laboratory. The Farallon QA/QC specialist then produced the analytical summary tables included in this RI Report (Tables 2 through 9).



Soil cuttings, decontamination wastewater, and monitoring well purge and development wastewater were placed into labeled U.S. Department of Transportation-approved steel drums for temporary storage, transport, and disposal.

3.1.2.1 October and November 2019

On October 23 and November 6, 2019, E&E, acting at EPA's request, advanced borings BH01 through BH06 and BG01 at Thompson Field (Figure 3). Farallon collected split soil samples from borings BH01 through BH06 and BK01 and reconnaissance ground samples from borings BH01, BH02, and BK01. Farallon collected an additional soil sample (Farallon Background) in the wetland area to the south of Thompson Field, beneath the root structure of an overturned tree. Select split soil and reconnaissance groundwater samples were submitted for laboratory analysis for the following (Tables 2 and 6):

- DRO and ORO by Northwest Method NWTHP-Dx; and
- DRO and ORO by Northwest Method NWTPH-Dx with acid silica gel cleanup.

3.1.2.2 July and August 2020

On July 30 and 31, 2020 Farallon advanced borings FB-01 through FB-09 and FMW-01 through FMW-04 at Thompson Field in the immediate vicinity of E&E borings BH01 through BH03 and BH06 to further assess for potential soil and groundwater contamination (Figures 2 through 5, Appendix B).

Borings FB-01 through FB-09, FMW-02, and FMW-03 were advanced to a total depth 15 feet bgs and borings FMW-01 and FMW-04 were advanced to a total depth of 20 feet bgs using a track-mounted direct-push drill rig. Borings FMW-01 through FMW-04 were completed as groundwater monitoring wells and developed. Boring logs and well construction details for borings FB-01 through FB-09 and FMW-01 through FMW-04 are included in Appendix B. Monitoring well FMW-01 was installed proximate to the northeastern corner of Thompson Field to a depth of 20 feet bgs, with a 10-foot screen from a depth of 6 to 16 feet bgs. Monitoring well FMW-02 was installed proximate to E&E boring BH01 on the west side of Thompson Field to a depth of 15 feet bgs, with a 10-foot screen from a depth of 3 to 13 feet bgs. Monitoring well FMW-03 was installed proximate to E&E boring BH02 on the southside of Thompson Field to a depth of 15 feet bgs, with a 10-foot screen from a depth of 5 to 15 feet bgs. Monitoring well FMW-04 was installed proximate to E&E boring BH03 on the southeast side of Thompson Field to a depth of 20 feet bgs, with a 10-foot screen from a depth of 10 to 20 feet bgs. Each borehole was 5 inches in diameter, and each well casing was 2 inches in diameter. The screened interval of each monitoring well comprised a 0.010-inch slotted pre-pack screen. The annular space of each monitoring well was filled with 10-20 silica sand to the top of the screened interval, sealed with bentonite to within 1 foot of the ground surface, sealed at the surface with concrete, and completed with an 8-inch-diameter flush-mounted monument. Boring logs and well construction details for monitoring wells FMW-01 through FMW-04 are included in Appendix B.



Select soil and groundwater samples collected from borings advanced between July and August 2020 were analyzed for the following analyses to further evaluate the occurrence and concentrations of COPCs in soil and groundwater identified during the preliminary assessment conducted by E&E. (Tables 2 through 9):

- DRO and ORO by Northwest Method NWTPH-Dx with acid silica gel cleanup;
- VOCs by EPA Method 8260D;
- PAHs by EPA Method 8270D; and
- Arsenic by EPA Method 6000/7000 series.

Farallon collected groundwater samples at monitoring wells FMW-01 through FMW-04 on August 8, 2020 and had the northern edge of each well casing surveyed by a surveyor licensed in the Washington State. Prior to sampling, the depth to groundwater was measured to the nearest 0.01 foot in each monitoring well using an electronic water-level measuring device to evaluate the direction of groundwater flow and hydraulic gradient across Thompson Field. Depth to groundwater ranged from 3.95 feet below top of casing at monitoring well FMW-03 to 6.60 feet below top of casing at monitoring well FMW-01 (Table 1). Based on the depth to water measurements collected from monitoring wells FMW-01 through FMW-04, the flow direction of groundwater at Thompson Field on August 8, 2020 is interpreted to be towards the north-northeast with a gradient of approximately 0.006 feet per foot (Figure 6).

3.1.2.3 September and October 2020

On September 30, 2020, Farallon advanced borings FB-10 through FB-14 to a final depth of 10 feet bgs, using a track-mounted direct-push drill rig at locations adjacent to the eastern boundary of Thompson Field to assess the potential for fill material to be present outside the boundaries of Thompson Field (Figure 2, Appendix B). Select soils samples were analyzed for DRO, ORO, PAHs, and arsenic based on COPCs identified at Thompson Field by Farallon and others. All constituents were reported either non-detect at the laboratory PQL or at concentrations less than the MTCA Method A cleanup levels in the soil samples analyzed from borings FB-10 through FB-14 (Tables 2, 4, and 5). No fill material or groundwater was encountered during the advancement of borings FB-10 through FB-14 (Appendix B).

During September 30 and October 1, 2020, Farallon advanced borings FB-15 through FB-27, and FMW-05 through FMW-07 at Thompson Field using a track-mounted direct-push drill rig to further assess the extent of COPCs in soil and groundwater reported during the previous investigations conducted by Farallon and E&E.

Borings FMW-05 through FMW-07 were completed as monitoring wells and developed following installation (Figure 3, Appendix B). Monitoring well FMW-05 was installed proximate to the northwestern corner of Thompson Field to a depth of 15 feet bgs, with a 10-foot screen from a depth of 3 to 13 feet bgs. Monitoring well FMW-06 was installed



proximate to E&E boring BH05 in the approximate center of Thompson Field to a depth of 15 feet bgs, with a 10-foot screen from a depth of 3 to 13 feet bgs. Monitoring well FMW-07 was installed proximate to the southeastern corner of Thompson Field to a depth of 15 feet bgs, with a 10-foot screen from a depth of 3 to 13 feet bgs. Each borehole was 5 inches in diameter, and each well casing was 2 inches in diameter. The screened interval of each monitoring well was comprised of a 0.010-inch slotted pre-pack screen. The annular space of each monitoring well was filled with 10-20 silica sand to the top of the screened interval, sealed with bentonite to within 1 foot of the ground surface, sealed at the surface with concrete, and completed with an 8-inch-diameter flush-mounted monument (Appendix B).

Farallon collected groundwater samples at monitoring wells FMW-05 through FMW-07 on October 9, 2020 and had the northern edge of each well casing surveyed by a surveyor licensed in Washington State. Prior to sampling, the depth to groundwater was measured to the nearest 0.01 foot in monitoring wells FMW-01 through FMW-07 using an electronic water-level measuring device to evaluate the direction of groundwater flow and hydraulic gradient across Thompson Field. Depth to groundwater ranged from 3.00 feet below top of casing at monitoring well FMW-06 to 6.33 feet below top of casing at monitoring well FMW-01 (Table 1). Based on the depth to water measurements collected from monitoring wells FMW-01 through FMW-07, the flow direction of groundwater at Thompson Field on October 10, 2020 is interpreted to be nearly radial with a gradient of approximately 0.05 to 0.007 feet per foot (Figure 7).

Select soil and groundwater samples collected from borings FB-15 through FB-27 and FMW-05 through FMW-07 and groundwater samples from monitoring wells FMW-05 through FMW-07 were analyzed for the following (Tables 2, 4 through 6, 8, and 9):

- DRO and ORO by Northwest Method NWTPH-Dx with and without acid silica gel cleanup;
- PAHs by EPA Method 8270D; and
- Arsenic by EPA Method 6000/7000 series.

3.1.2.4 November 2020 through February 2021

On November 30, 2020, Farallon redeveloped monitoring wells FMW-05 through FMW-07 using surging and bailing techniques due to the potential for excess turbidity within the monitoring wells to affect arsenic analytical results.

Farallon returned to Thompson Field on December 11, 2020, to gauge depth to groundwater at monitoring wells FMW-01 through FMW-07, surface water elevations at the agricultural ditch surrounding Thompson Field, resample monitoring wells FMW-02, FMW-03, FMW-06, and FMW-07, and to advance boring FB-28 (Figure 3, Table 1). Groundwater samples were collected from the monitoring wells and submitted for laboratory analysis for one or more of the following constituents: total and dissolved



aluminum; total and dissolved arsenic; total and dissolved iron; and total and dissolved manganese.

Boring FB-28 was advanced using a hand auger to a depth of approximately 2 feet bgs adjacent to E&E boring BH05. A soil sample was collected at boring FB-28 at a depth of approximately 1.5 to 2.0 feet bgs to confirm the mercury detection reported in the soil sample collected by E&E at a depth of 1.5 to 2.0 feet bgs at boring BH05 (Figure 3, E&E 2020).

On January 8, 2021 boring FB-29 was advanced and monitoring well FMW-08 was installed near the west side of Thompson Field to further assess for potential soil and groundwater contamination in this area. Drilling was conducted using a track-mounted direct-push drill rig. Monitoring well FMW-08 was installed to a depth of 13 feet bgs, with a 10-foot screen from a depth of 3 to 13 feet bgs (Figure 3). The borehole was approximately 5 inches in diameter and the well casing was 2 inches in diameter. The screened interval of the monitoring well was comprised of a 0.010-inch slotted pre-pack screen. The annular space of the monitoring well was filled with 10-20 silica sand to the top of the screened interval, sealed with bentonite to within 1 foot of the ground surface, sealed at the surface with concrete, and completed with an 8-inch-diameter flush-mounted monument (Appendix B). Boring FB-29 was advanced adjacent to boring FMW-02 to a depth of 14 feet bgs to confirm a detection of total cPAHs at a TEC of 0.43 mg/kg in a soil sample collected boring FMW-02 at a depth of approximately 14 feet bgs (Figure 3, Table 4). In addition, Farallon gauged depth to groundwater at monitoring wells FMW-01 through FMW-07 and surface water elevations at the agricultural ditch surrounding Thompson Field (Table 1).

On January 18, 2021, the depth to groundwater was measured to the nearest 0.01 foot in monitoring wells FMW-01 through FMW-08 and at surface water monitoring locations using an electronic water-level measuring device to evaluate the direction of groundwater flow and hydraulic gradient across Thompson Field. Depth to groundwater ranged from 1.91 feet below top of casing at monitoring well FMW-08 to 4.67 feet below top of casing at monitoring well FMW-05 (Figure 10, Table 1). Based on the depth to water measurements collected from monitoring wells FMW-01 through FMW-08, groundwater on January 18, 2021 is interpreted as being mounded in the center of Thompson Field before flowing out radially with a trend to the northwest and northeast with a gradient of approximately 0.02 to 0.0125 feet per foot.

Farallon returned to Thompson Field on February 16, 2021 to collect a groundwater sample from monitoring well FMW-08 to be analyzed for PAHs and to survey the top of casing and top-of-monument elevation at FMW-08 (Table 1). Groundwater samples collected on February 16, 2021 from monitoring well FMW-08 were analyzed for iron and manganese.



3.2 CONSTITUENTS OF POTENTIAL CONCERN

Soil and reconnaissance groundwater samples collected by E&E at Thompson Field were analyzed for a wide variety of constituents including target analyte metals, TPH, PCBs, VOCs, and semi volatile organic compounds including PAHs. The following analytes, identified as COPCs, were reported at concentrations exceeding risk-based screening levels identified by E&E and were carried forward for additional assessment by Farallon:

- DRO;
- ORO;
- GRO;
- Benzene, toluene, ethylbenzene, and xylenes (BTEX);
- Methylene chloride;
- PAHs;
- Aluminum;
- Arsenic;
- Iron;
- Manganese;
- Mercury; and
- Selenium.

Based on the laboratory analysis of soil and reconnaissance groundwater samples collected at and adjacent to Thompson Field, other constituents analyzed by E&E and not listed above were either not detected at concentrations at or exceeding laboratory PQLs or were detected but at concentrations typical of background concentrations (metals) or less than potentially applicable MTCA cleanup levels and other screening levels.

3.3 AFFECTED MEDIA

Based on geological and hydrogeological conditions and the current and future land use at Thompson Field, the media of potential concern evaluated during the RI were soil, groundwater, and surface water. Indoor air is not a media of concern at Thompson Field because no buildings are present on the Thompson Field Site and no buildings will be constructed in the future due to wetlands and wetland buffers on Thompson Field (Talasea 2018).

3.4 REMEDIAL INVESTIGATION RESULTS

This section presents the results of the RI field program performed by Farallon, including a description of Thompson Field geology and hydrogeology, and soil and groundwater analytical



results. Select laboratory analytical results for soil and groundwater are summarized on Figures 4 and 5 and Tables 2 through 9.

3.4.1 Geology and Hydrogeology

The Puget Sound region is underlain by Quaternary sediments deposited by a number of glacial episodes. Deposition occurred prior to, during, and following glacial advances and retreats, creating the existing subsurface conditions. The sediments in the Evans Creek Valley consist primarily of alluvium and Vashon recession outwash situated over deposits of glacial till that consist of silty sand to sandy silt with gravel. Shallow alluvium consisting of relatively fine-grained sands, silts, clays, and organic matter were deposited by rivers, streams, and post-glacial lakes during glacial advances and recessions. Advance outwash sediments have been largely over-consolidated by the overriding ice sheets. These advance outwash sediments are overlain by a till-like layer and recessional outwash sediments that are less consolidated (Redmond 1997, Redmond 1999).

According to Farallon's observations during the RI and review of boring logs from the preliminary assessment (E&E 2020), the general stratigraphy at Thompson Field comprises a fill layer of variable thickness to depths ranging from approximately 2 to 6 feet bgs, with the fill thickness increasing from east to west (see boring logs in Appendix B). The fill layer is present across much of Thompson Field, but was not observed during the advancement of borings FB-10 through FB-14 proximate to the eastern boundary of Thompson Field. The fill material observed is comprised of silty sand, sandy silt, and silt containing varying amounts of gravel, wood, and brick. Native soil underlying the fill is an approximately 3- to 8-foot-thick layer of alluvium consisting of silt and organic material which is further underlain by glacial outwash consisting of gravel, sand, and silt extending to the maximum depth explored of 20 feet bgs. Northwest to southeast and west to east cross-sections across the western portion of Thompson Field depicting the lithology, water-bearing zones, and analytical results for select constituents detected in soil and groundwater samples are presented on Figures 8 and 9 (respectively). The location of the cross-sections is shown on Figure 3.

The interval where first-encountered groundwater is present in the fill and underlying recent alluvium at Thompson Field varies from a depth of approximately 1 to 6.5 feet bgs, depending on location and seasonal fluctuations (Table 1).

Farallon measured groundwater levels at the Thompson Field monitoring well network up to seven times and selected the groundwater elevations from the most recent groundwater monitoring event on January 18, 2021 to depict groundwater elevations and the flow direction for the RI (Figure 10). Based on the groundwater levels measured on January 18, 2021, the groundwater flow direction is radial from the center of Thompson Field with an overall trend to the northwest and northeast at an average gradient of 0.011 feet per foot at that time (Figure 10). Surface water in the agricultural ditches surrounding Thompson were measured at 60.19 to 61.90 feet NAVD88 with a general flow to the south on the eastern half of Thompson Field and to the west on the western half of Thompson Field. Groundwater and surface water elevation measurements collected during



the RI are provided in Table 1. A map showing groundwater elevation contours inferred from January 18, 2021 groundwater elevation measurements is provided as Figure 10.

Groundwater at Thompson Field and surface water in the surrounding agricultural ditches are interpreted as being in communication based upon the groundwater and surface water elevations measured in December 2020 and January 2021 (Figure 10, Table 1).

3.4.2 Soil Analytical Results

All constituents analyzed in soil samples collected from borings FB-09 through FB-14 advanced at locations adjacent to Thompson Field were reported either non-detect at the laboratory PQL or at concentrations less than the MTCA Method A cleanup levels (Tables 2, 4, and 5). No fill material was encountered during the advancement of borings FB-10 through FB-14 (Appendix B).

Analytical results for soil samples collected at Thompson Field are discussed below and compared to MTCA Method A cleanup levels for unrestricted land use. COPCs detected in soil at Thompson Field were determined not to be of ecological concern as described in the site-specific TEE conducted for the Thompson Field Site and included as Appendix D (See section 4.4.2 for discussions on Ecological Screening Levels).

3.4.2.1 PAHs

Total cPAHs are present at TECs exceeding the MTCA Method A cleanup level of 0.1 mg/kg in fill at depths ranging from 1 to 6 feet bgs on the western portion of Thompson Field (Figure 5, Table 4). Total cPAHs were detected at TECs exceeding the MTCA Method A cleanup level of 0.1 mg/kg in soil samples collected from borings FB-02, FB-03, FB-17, FB-19 through FB-21, FB-24, and FMW-02 on the western portion of Thompson Field. The extent of total cPAHs at TECs exceeding the MTCA Method A cleanup level in soil is laterally bounded to the north by borings FB-22 and FB-23, to the east by borings FB-16 and FB-18, to the south by borings FB-04, FB-05, and FB-18, and to the west by borings FB-25 through FB-27 (Figure 5). Total cPAHs at a TEC of 0.43 mg/kg detected in a soil sample collected at a depth of 14 feet bgs at boring FMW-02 was not replicated in a confirmation sample collected at a depth of 14 feet bgs at boring FB-29 advanced immediately adjacent to boring FMW-02.

The soil sample collected at boring FMW-02 at a depth of approximately 14 feet bgs is interpreted as being within native soil and is attributed to be the result of impacted fill potentially transferred vertically downward from shallower depths during direct-push drilling activities because the reported detection could not be replicated with a sample collected at 14 feet bgs from boring FB-29 advanced immediately adjacent to FMW-02 (Figure 8, Table 4, Appendix B).

Total naphthalenes, calculated as the sum of 1-methylnaphthalene and 2-methylnaphthalene, were detected at concentrations exceeding the MTCA Method A cleanup level of 5 mg/kg in soil samples collected at depths ranging from 4 to 6 feet bgs in



borings FB-02, FB-20, and FMW-02 (Figure 3, Table 4). All other PAHs were either not detected at concentrations at or exceeding the laboratory PQL or detected at concentrations less than the MTCA Method A cleanup level in all remaining soil samples collected at Thompson Field (Figure 5, Table 4, Appendix C).

3.4.2.2 Metals

Arsenic was reported at a concentration of 23 mg/kg in a soil sample collected from approximately 10 feet bgs at boring FMW-03 which exceeds the MTCA Method A cleanup level of 20 mg/kg. Arsenic was reported non-detect at the laboratory PQL in all other soil samples analyzed from the borings advanced by Farallon at Thompson Field (Table 5, Appendix C). The soil samples collected from monitoring well boring FMW-03 and E&E boring BH02 were collected on the south side of Thompson Field at a depth of approximately 10 feet bgs, which is interpreted to be approximately 4.5 feet into the native material, and therefore the reported arsenic exceedances are attributed to naturally occurring background concentrations (Figures 8, and 9, Appendix B). Furthermore, arsenic concentrations in soil samples collected from fill material overlaying native soil at monitoring well boring FMW-03 and E&E boring BH02 were reported as non-detect at the laboratory PQL (Figures 3, 8 and 9, Table 5) (E&E 2020).

Mercury was not detected at a concentration at or exceeding the laboratory PQL in the soil sample collected at a depth of 1.5 to 2.0 feet bgs from boring FB-28. Boring FB-28 was advanced immediately adjacent to E&E boring BH05 where mercury was detected at a concentration of 0.15 mg/kg (Figure 3, Table 5) (E&E 2020).

Selenium was detected at a concentration exceeding the laboratory PQL but less than the MTCA Method A cleanup level in a soil sample collected by E&E at boring BH02 at a depth of 8 to 10 ft bgs (E&E 2020). The depth from which the sample was collected is interpreted to be within native material (Figure 9). Selenium was not detected at a concentration at or exceeding the laboratory PQL in soil samples collected from boring BH02 at shallower depths of 0.5 to 2 and 4 to 5 feet bgs, interpreted to be within the fill layer (E&E 2020). Detected concentrations of selenium were either flagged by the laboratory as being an estimate or selenium was not detected at a concentration at or exceeding the laboratory PQL in all other soil samples analyzed for selenium from Thompson Field (Table 5).

3.4.2.3 TPH

DRO and ORO were detected at concentrations less than MTCA Method A cleanup levels in soil samples collected at 10 locations at Thompson Field including the Farallon Background soil sample collected from the within the adjacent wetland (Figure 2, Table 2). DRO and ORO were not detected at concentrations at or exceeding the laboratory PQL in all other soil samples analyzed (Table 2).



A comparison of DRO and ORO analytical results with and without using the acid/silica gel cleanup procedure indicates that some upwards bias due to the presence of naturally occurring biogenic material, including background samples in which DRO or ORO were detected, was present in all samples analyzed for TPH (Table 2, Appendices A and B).

3.4.2.4 VOCs

Methylene chloride was reported non-detect at the laboratory PQL in soil samples collected from borings FB-07 through FB-09 and FMW-04 advanced adjacent to E&E boring BH03 where methylene chloride was previously detected at a concentration of 0.23 mg/kg in a soil sample collected at a depth of 4.5 to 6 feet bgs (Figure 3, Table 3) (E&E 2020). All other VOCs were reported either non-detect at the laboratory PQL or at concentrations less than MTCA Method A cleanup levels in the soil samples analyzed (Table 3, Appendix C).

3.4.3 Groundwater Analytical Results

Analytical results for groundwater samples collected at Thompson Field are discussed below and compared to MTCA Method A cleanup levels for groundwater. COPCs detected in groundwater at Thompson Field were determined not to be of ecological concern as described in the site-specific TEE conducted for the Thompson Field Site and included as Appendix D (See section 4.4.2 for discussions on Ecological Screening Levels).

3.4.3.1 Metals

Total arsenic was reported at concentrations exceeding the MTCA Method A cleanup level of 5 micrograms per liter ($\mu\text{g/l}$) in groundwater samples collected from monitoring wells FMW-03, FMW-06, and FMW-07. Dissolved arsenic was reported at concentrations exceeding the MTCA Method A cleanup level of 5 $\mu\text{g/l}$ in groundwater samples collected from monitoring wells FMW-06 and FMW-07. Following redevelopment of the monitoring wells on November 30, 2020, total arsenic was reported at a concentration of 5.3 $\mu\text{g/l}$ in a groundwater sample collected from monitoring well FMW-7, which slightly exceeds the MTCA Method A cleanup level of 5 $\mu\text{g/l}$. Dissolved arsenic was reported at a concentration less than the MTCA Method A cleanup level in the groundwater sample collected from monitoring well FMW-07. Total and dissolved arsenic were reported either non-detect at the laboratory PQL or at concentrations less than the MTCA Method A cleanup levels in all other groundwater samples analyzed (Table 9, Appendix C).

The concentrations of arsenic reported in groundwater at Thompson Field ranges from non-detect ($<3.3 \mu\text{g/l}$) to 14 $\mu\text{g/l}$, which falls within the natural background concentration range of 0.8 to 76 $\mu\text{g/l}$ for the Puget Sound Lowlands (Ecology 2018). The arsenic exceedances reported in the groundwater samples collected at Thompson Field are likely the result of metals associated with total suspended solids in the groundwater sample matrix and do not reflect the actual quality of groundwater at Thompson Field. This position is supported with the significantly lower concentrations of total arsenic in monitoring wells FMW-03, FMW-06 and FMW-07 following redevelopment of the wells. In addition, no known anthropogenic source of arsenic is known to be present at Thompson Field, with the highest



concentrations of arsenic in soil being located not within fill material but within native soil at depths of 10 feet bgs (Tables 5 and 9, Appendices A and B)

Total and dissolved iron and manganese were detected at concentrations less than MTCA Method A cleanup levels in groundwater samples collected from monitoring wells FMW-02 and FMW-08 (Table 9).

Total aluminum was detected at a concentration less than the MTCA Method A cleanup level in a groundwater sample collected from monitoring well FMW-02, dissolved aluminum was not detected at a concentration at or exceeding laboratory PQLs in the same groundwater sample (Table 9).

All remaining metals were either reported non-detect at concentrations at or exceeding the laboratory PQL or at concentrations less than their respective MTCA Method A cleanup levels in the groundwater samples analyzed (Table 9, Appendix C).

3.4.3.2 PAHs

PAHs were reported at concentrations less than MTCA Method A cleanup levels for groundwater in the sample collected from monitoring well FMW-02. PAHs were not detected at concentrations at or exceeding the laboratory PQL in all other groundwater samples collected from monitoring wells on Thompson Field, including monitoring well FMW-08 which is interpreted as being hydraulically downgradient from monitoring well FMW-02 (Figures 9 and 10, Table 8). The results of the groundwater sampling at Thompson Field indicate that PAH impacts present on the western portion of Thompson Field are limited in extent and are not in communication with surface water.

3.4.3.3 TPH

TPH as DRO and ORO were either not detected at concentrations at or exceeding the laboratory PQL or at concentrations less than MTCA Method A cleanup levels in all groundwater samples analyzed (Table 6). A comparison of DRO and ORO analytical results with and without using the acid/silica gel cleanup procedure indicates that some upwards bias due to the presence of naturally occurring biogenic material was present in all samples in which DRO or ORO were detected (Table 6, Appendix C).

3.4.3.4 VOCs

All VOCs were reported non-detect at the laboratory PQLs in a groundwater sample collected from monitoring well FMW-04 installed adjacent to E&E boring BH03 (Table 7, Appendix C).



4.0 CONCEPTUAL SITE MODEL

This section provides a summary of the conceptual site model derived from the results of the RI. Included in this section is a discussion of COCs, media of concern, source areas, contaminant fate and transport, and an exposure assessment that included a human health risk evaluation and a TEE.

4.1 SOURCE AREA

Based on the results of the field program, the source of contamination is impacted fill material placed on the Thompson Field Site. The fill layer varies from a depth of 2 to 6 feet at the locations explored within Thompson Field (Figure 3). Brick and wood debris were encountered in the fill and laboratory analytical results confirmed that fill in a limited area contained co-located total naphthalene concentrations and total cPAHs TECs exceeding the MTCA Method A cleanup levels.

4.2 AFFECTED ENVIRONMENTAL MEDIUM

Based on the results of the RI, the affected environmental medium at the Thompson Field Site is soil with total naphthalene concentrations and total cPAHs TECs exceeding the MTCA Method A cleanup levels.

Groundwater and surface water are not media of concern because the site-specific TEE discussed in Section 4.4.2 determined that concentrations of COPCs at Thompson of Field were not of ecological concern, and with the exception of naturally occurring arsenic, no COPCs were detected in groundwater at concentrations exceeding MTCA Method A cleanup levels (Tables 5 through 9, Appendix D). In addition, PAHs were not detected at concentrations at or exceeding the laboratory PQL in all other groundwater samples collected from monitoring wells on Thompson Field, including monitoring wells FMW-01, FMW-05, and FMW-08 which are located on the boundaries of Thompson Field, and interpreted as being hydraulically down-gradient from monitoring well FMW-02 (Figures 9 and 10, Table 8). Therefore, the groundwater to surface water exposure pathway at the Thompson Field Site is not complete.

Indoor air is not a media of concern because no structures are present on the Thompson Field Site and none will be constructed there in the future because of wetland setbacks and related development restrictions (Figure 2).

4.3 CONTAMINANT FATE AND TRANSPORT

Potential exposure pathways for soil contamination includes the direct contact pathway, which comprises direct contact via dermal contact with and/or ingestion of soil.

PAHs are present in fill material on the western portion of Thompson Field and PAHs are present in groundwater in a limited area in the vicinity of monitoring well FMW-02. The low mobility of cPAHs at the Thompson Field Site is attributed to their very low aqueous solubility and their penchant to sorb to organic carbon (Ecology 2012, EPA 2007b). This is particularly relevant for



higher weight cPAHs when in the presence of organic carbon, which is prevalent in wetland soils and pasture or cropland, both of which are present at and beneath the Thompson Field Site. The physical and chemical properties attributed to cPAHs are consistent with the limited transport of cPAHs observed at the Thompson Field Site; cPAHs have not been detected in groundwater.

PAHs have not been detected at concentrations at or exceeding the laboratory PQL in groundwater samples collected from monitoring wells located on the boundaries of Thompson Field indicating that groundwater transport of PAHs is minimal at the Thompson Field Site (Figure 4). Because the area of Thompson Field where total cPAH TECs were confirmed to exceed the MTCA Method A cleanup level for soil is flat lying, the potential for overland transport of impacted soil via sheet flow is de minimis, so the only mechanism for surface water to be impacted is via groundwater flow to surface water. The results of the RI confirm that groundwater is not a medium of concern (see Sections 3.4.3, Groundwater Analytical Results and 4.3, Affected Environmental Media), therefore, there is no completed transport pathway for cPAHs in soil to impact surface water.

4.4 EXPOSURE PATHWAYS AND RECEPTORS

Two types of exposure pathways associated with the potential for COPCs to be present at Thompson Field are identified for the Thompson Field Site. These exposure risks include human health and terrestrial ecological receptors. This subsection presents the evaluation and conclusions pertaining to the exposure pathways at the Thompson Field Site including the results of the TEE completed for the Thompson Field Site.

4.4.1 Human Health Risk

Human exposure pathways for shallow soil at the Thompson Field Site include the direct contact pathway, which comprises both the dermal contact and ingestion pathways. The standard point of compliance for the direct contact exposure pathway is a depth of 15 feet bgs for human health and 6 feet bgs for terrestrial receptors (WAC 173-340-740[6][d] and WAC 173-340-7490[4][b]). Total cPAHs at TECs exceeding the MTCA Method A cleanup level were detected in shallow subsurface fill within a depth of 6 feet bgs.

4.4.2 Terrestrial Ecological Evaluation

A completed TEE Form is provided in Appendix D. The Thompson Field Site is within 500 feet of undeveloped land totaling more than 0.25 acre; therefore, the Thompson Field Site does not qualify for an exclusion from a TEE. The Thompson Field Site is directly adjacent to the Evans Creek Natural Area, and concentrations of COPCs in soil samples collected from the Thompson Field Site exceed the Ecological Indicator Soil Concentrations for Protection of Terrestrial Plants and Animals (Appendix D). Therefore, the Thompson Field Site did not qualify for evaluation under a simplified TEE. Thus, a site-specific TEE was conducted for the Thompson Field Site according to procedures specified in MTCA (WAC 173-340-7493(1)(c)).

The site-specific TEE conducted for the Thompson Field Site evaluated the potential ecological risks presented by the concentrations of COPCs detected in soil and groundwater samples collected



at Thompson Field. The process and results of the site-specific TEE are summarized below (Appendix D):

- Soil chemicals of ecological concern at Thompson Field were identified in accordance with WAC 173-340-7493(2)(a)(i), by determining if the exposure point concentration of COPCs identified in soil exceed the ecological indicator soil concentrations identified for plants, soil biota, or wildlife. Based on this screening, combined DRO and ORO and selenium were retained as soil chemicals of ecological concern for further evaluation.
- Groundwater chemicals of ecological concern at Thompson Field were identified using a two-step process in accordance with WAC 173-340-730. The first step involved identifying COPCs in groundwater with maximum detected concentrations exceeding relevant surface water benchmark criteria. The second step involved comparing concentrations of COPCs in groundwater samples collected from monitoring wells located most downgradient prior to discharge to surface water to surface water concentrations protective of aquatic life. As described in Section 3.4.1, Geology and Hydrogeology, groundwater flows to the northeast and to the northwest prior to discharging to the agricultural ditches surrounding Thompson Field. Thus, concentrations of chemicals in groundwater samples collected from monitoring wells FMW-08, FMW-05, and FMW-01 represent the most downgradient groundwater sampling points prior to potential discharge to surface water (Figure 3). Based on this two-step screening process for groundwater chemicals of ecological concern, iron and manganese were retained for further evaluation.
- A review of habitats and ecological receptors of concern was conducted to identify species that may potentially be present at Thompson Field.
- An ecological risk assessment was conducted based on the identified soil COPCs and species recognized as being potentially present at the Thompson Field Site. Site-specific exposure data and the underlying toxicological information associated with selected ecological indicator soil concentrations were reviewed for each receptor and chemical of concern to evaluate the risk of adverse ecological effects for each receptor. The results of the ecological risk assessment determined that the low combined DRO and ORO concentrations pose negligible risk to ecological receptors. The presence of selenium poses negligible risk to ecological receptors and the elevated concentration in the one sample is likely associated with background concentrations.
- Concentrations of iron and manganese in groundwater exceed respective screening level values identified in the site-specific TEE for groundwater in down-gradient monitoring well FMW-08 at the Thompson Field Site. These chemicals could potentially leach to surface water resulting in exposure to aquatic biota receptors using the adjacent Evans Creek. Based on the available information, risk to surface water receptors from concentrations of iron is highly uncertain and concentrations of iron in soil samples collected at the Thompson Field Site are believed to be representative of natural occurring background concentrations. Based on the available information, risk to surface water receptors from concentrations of manganese at the Thompson Field Site is highly uncertain



and concentrations in groundwater are believed to be representative of natural occurring background concentrations.

4.5 CLEANUP STANDARDS

The following is a discussion of the proposed cleanup standards for the cPAHs in soil at the Thompson Field Site, including applicable cleanup levels and points of compliance for soil. As described in Section 4.2, Affected Environmental Medium, groundwater, surface water, and indoor air are not media of concern for the Thompson Field Site; therefore, cleanup standards are not specified below for these media.

4.6 CONSTITUENTS OF CONCERN

The COCs for the Thompson Field Site include hazardous substances detected at concentrations exceeding MTCA cleanup levels in soil that are not the result of naturally occurring background concentrations (Section 3.4.2 Soil Analytical Results). The COCs for soil at the Thompson Field Site are total naphthalenes exceeding the MTCA Method A cleanup level and cPAHs exceeding the MTCA Method A cleanup level for cPAHs TEC.

4.6.1 Cleanup Levels

MTCA Method A soil cleanup levels for unrestricted land use are appropriate for the contamination affecting the Thompson Field Site. The Thompson Field Site is currently a fallow hay field, following the conclusion of remedial activities the Thompson Field Site will be allowed to revert to a natural state and will remain open space as mandated by the anticipated development process.

The MTCA Method A cleanup level for cPAHs in soil at the Thompson Field Site is 0.1 mg/kg cPAH TEC.

The MTCA Method A cleanup level for total naphthalenes in soil at the Thompson Field Site is 5.0 mg/kg.

4.6.2 Points of Compliance

The points of compliance are the locations at which the cleanup level in soil must be attained to meet the requirements of MTCA. The point of compliance for the Thompson Field Site was established in accordance with WAC 173-340-704(1).

The point of compliance for soil is defined as all soil throughout the Thompson Field Site (standard point of compliance under MTCA).



5.0 SUMMARY AND CONCLUSIONS

Farallon performed remedial investigations at Thompson Field from June 2020 to February 2021 to evaluate COPCs in soil and groundwater identified during the preliminary assessment conducted by E&E on behalf of EPA (E&E 2020). The remedial investigations conducted by Farallon comprised of advancing 37 borings to a maximum depth of 20 feet bgs and installing groundwater monitoring wells in eight of the borings for collection of soil and groundwater samples at Thompson Field, collection of background samples at a maximum depth of 10 feet bgs from seven additional locations surrounding Thompson Field, and completing a site-specific TEE (Appendix D). Soil and groundwater samples collected during the course of the subsurface investigation were analyzed for one or more of the following: TPH as DRO and ORO with and without acid/silica gel cleanup; VOCs; PAHs; aluminum; arsenic; iron; manganese; mercury; and selenium (Tables 2 through 9).

Farallon observed subsurface conditions during drilling; soils at Thompson Field are comprised of a fill layer of variable thickness ranging from approximately 2 to 6 feet bgs in depth, with the fill thickness increasing from east to west. The fill soils overlay native soil consisting of silt and organic material, which is further underlain by gravel (Appendix A). Groundwater is first-encountered in the fill and underlying native silt at Thompson Field and varies from depths of approximately 1 to 6.5 feet bgs, depending on location and seasonal fluctuations (Table 1). Groundwater is interpreted as being mounded in the center of Thompson Field before flowing out radially with a trend to the northwest and northeast.

The results of the site-specific TEE conducted for the Thompson Field Site determined that analytes detected in soil and groundwater at Thompson Field were not to be of ecological concern (Appendix D).

The subsurface investigations conducted by Farallon identified co-located total naphthalene concentrations and total cPAHs TECs exceeding MTCA Method A cleanup levels in soil, as the COCs for the Thompson Field Site. The extent of total naphthalene concentrations and total cPAHs TECs exceeding MTCA Method A cleanup levels is limited to fill soils in a discrete area on the western portion of Thompson Field. PAHs are present in groundwater at concentrations exceeding applicable ecological screening levels but less than MTCA Method A cleanup levels in groundwater samples collected from monitoring well FMW-02 at the Thompson Field Site. PAHs have not been detected at concentrations at or exceeding the laboratory PQL in groundwater samples collected from down-gradient monitoring wells surrounding the Thompson Field Site, indicating that groundwater transport of PAHs is not occurring at the Thompson Field Site and that PAHs are not reaching surface waters surrounding Thompson Field (Figure 4). Therefore, groundwater does not have a complete pathway to ecological receptors, poses a negligible risk to ecological receptors and does not exceed Method A cleanup levels, thereby meeting a “throughout the Site” compliance point. The limited transport of PAHs observed at the Thompson Field Site is attributed to the hydrophobic nature of PAHs, coupled with the high organic carbon present in soils associated with conditions encountered at Thompson Field.



DRO and ORO were detected in soil samples collected at Thompson Field and in the Farallon Background sample at concentrations exceeding ecological screening levels but less than MTCA Method A cleanup levels (Figure 2, Table 2). DRO and ORO samples analyzed with and without acid/silica gel cleanup indicate that all samples in which DRO and ORO were detected had some upward bias due to the presence of naturally occurring biogenic material, i.e., in all cases, concentrations were lower for the samples analyzed using the acid/silica gel cleanup procedure than for non-treated samples. DRO and ORO were not detected at a concentration at or exceeding the laboratory PQL in all groundwater samples collected from monitoring wells FMW-01 through FMW-06 at Thompson Field. DRO and ORO were detected at concentrations less than the MTCA Method A cleanup levels in one groundwater sample collected from monitoring well FMW-07, but were not detected at concentrations at or exceeding the laboratory PQL when the same sample was analyzed using the acid/silica gel cleanup procedure. The presence of ORO in the Farallon Background sample collected within the wetland south of Thompson Field from beneath the root structure of an overturned tree further supports the conclusion that the presence of DRO and ORO in samples collected at Thompson Field is due to naturally occurring biogenic material present in soil.

Arsenic detected at concentrations exceeding the MTCA Method A cleanup level for soil in samples collected at Farallon boring FMW-03 and E&E boring BH02 are attributed to naturally occurring background concentrations. The soil samples were collected at depths of 8 to 10 feet bgs, which is interpreted as being in native soil (Figure 9). Arsenic concentrations for soil samples collected from shallower depths interpreted to be within the fill layer at borings FMW-03 and BH02, were either not detected at or exceeding the laboratory PQL or were reported at a concentration less than the MTCA Method A cleanup level despite being flagged by the laboratory as a biased high estimate (respectively) (Table 5) (E&E 2020). The elevated concentrations of arsenic observed in groundwater samples collected at Thompson Field are also attributed to naturally occurring background concentrations, rather than from sources at the Thompson Field Site (Table 9). The same conclusion is drawn by E&E in the Preliminary Assessment Report (E&E 2020). This conclusion is further substantiated by the elevated arsenic concentration detected in a groundwater sample collected by E&E at off-site monitoring well MW356, located approximately 0.4 mile northwest of the Thompson Field Site at a location on the west side of Evans Creek and interpreted as potentially hydrologically divided from the Thompson Field Site.

Selenium was detected at a concentration of 3.2 mg/kg in one soil sample collected at boring BH02 at a depth of 8 to 10 feet bgs, which is less than the MTCA Method A Cleanup level but exceeds the most restrictive risk-based screening level identified by E&E for selenium (Table 5) (E&E 2020). (Appendix D). The 8-to-10-foot bgs sample interval at boring BH02 is interpreted as native material below the fill material. Selenium was not detected at a concentration at or exceeding the laboratory PQL in the surface soil sample collected from the fill layer at boring BH02. Selenium was not reported at concentrations exceeding risk-based screening levels identified during the site-specific TEE in any other soil sample collected at Thompson Field, including the surface soil sample collected from the fill layer at BH02. Based on the depth of the sample with a selenium concentration exceeding risk-based screening levels (8 to 10 feet bgs), low detection frequency,



and low detected concentrations in other samples, the elevated concentration detected in sample BH02 is believed to be associated with naturally occurring background.

Mercury was detected at a concentration of 0.15 mg/kg in E&E soil sample BH05SB01 collected from boring BH05 at a depth of 1.5 to 2.0 feet bgs, which exceeds the most restrictive risk-based screening level identified by E&E but does not exceed the MTCA Method A screening level (Table 5, Appendix D) (E&E 2020). Mercury was not detected at a concentration at or exceeding the laboratory PQL in a soil sample collected at a depth of 1.5 feet bgs from Farallon boring FB-28 advanced immediately adjacent to boring BH-5 (Table 5).

Manganese was detected in groundwater samples collected from monitoring wells FMW-02, FMW-03, and FMW-08 at concentrations ranging from 200 to 570 µg/l (Table 9). A groundwater sample collected from monitoring well FWM-08, which is reflective of concentrations near the Thompson Field Site boundary prior to discharge to surface water, had a concentration of 200 µg/l which exceeds the ecological screening level of 120 µg/l identified in the TEE as being protective of surface water aquatic organisms (Figure 2, Table 9, Appendix D). Elevated concentrations of manganese were also detected in all but one of the groundwater samples collected by E&E from off-site monitoring wells located up to 0.4 miles from the Thompson Field Site. E&E attributed the manganese concentrations in groundwater to naturally occurring background concentrations (E&E 2020). While manganese can be toxic at high concentrations, manganese is among the most common elements in soil and there is no known source of a release of manganese at the Thompson Field Site. Concentrations of manganese in soil ranged from 159 to 424 mg/kg, which are less than the Washington State natural background concentration of 1,100 mg/kg (Ecology 1994) and are similar to concentrations reported by EPA for nearby background samples (E&E 2020). Based on the available information, concentrations of manganese detected in soil and groundwater at Thompson Field are believed to be representative of naturally occurring background concentrations (Appendix D).

Dissolved iron was detected at concentrations ranging from 1,500 to 7,100 µg/l in groundwater samples collected from monitoring wells FMW-02, FMW-03 and FMW-08 (Table 9). A groundwater sample collected from monitoring well FMW-08, which is reflective of concentrations near the Thompson Field Site boundary prior to discharge to surface water, had a total iron concentration of 6,800 µg/l, which exceeds the ecological screening level of 1,000 µg/l identified in the TEE as being protective of surface water aquatic organisms (Figure 2, Table 9, Appendix D). While iron can be toxic at high concentrations, iron is among the most common elements in soil and there is no known source of a release of iron at the Thompson Field Site. Iron was detected at concentrations exceeding the ecological screening level protective of surface water aquatic organisms of 1,000 µg/l in three of four groundwater samples collected by E&E from off-site monitoring wells located approximately 0.4 mile to the northwest of Thompson Field (E&E 2020). Concentrations of iron in soil samples collected at Thompson Field by E&E at depths of 0.5 to 10 feet bgs ranged from 12,700 to 21,400 mg/kg, which are less than the Washington State natural background concentration of 42,100 mg/kg (Ecology 1994) and are similar to concentrations reported by EPA for nearby background samples (E&E 2020). Based on the available information, concentrations of iron in soil and groundwater samples collected at



Thompson Field are believed to be representative of naturally occurring background concentrations (Appendix D).

Total aluminum was detected at concentrations less than the MTCA Method A cleanup level in groundwater samples collected at monitoring well FMW-02, E&E reconnaissance groundwater samples BH01, BH02 and E&E background groundwater sample BK01 (Table 9) (E&E 2020). Dissolved aluminum was not detected at a concentration at or exceeding the laboratory PQL in any of the groundwater samples collected at Thompson Field. Total aluminum detected in groundwater is likely the result of metals associated with total suspended solids in the groundwater sample matrix and do not reflect the true condition of groundwater quality at Thompson Field. This conclusion is corroborated further with the presence of total aluminum in the E&E background sample, and the fact that dissolved aluminum has not been detected in groundwater at a concentration at or exceeding the laboratory PQL at Thompson Field (E&E 2020).

Methylene chloride was detected at a concentration of 0.023 mg/kg, which slightly exceeds the MTCA Method A cleanup level of 0.020 mg/kg, in one soil sample collected from E&E boring BH03 at a depth of 4.5 to 6.0 feet bgs (Table 3). Methylene chloride was not detected at or exceeding the laboratory PQL in a soil sample collected from the same boring at a depth of 1.5 to 3.0 feet bgs. Methylene chloride was not detected at or exceeding the laboratory PQL in soil samples collected from borings FB-07 through FB-09 and FMW-04 at depths of 5 to 6 feet bgs, which were advanced in the immediately adjacent to boring BH03 to the north, east, south, and west (Figure 2). Methylene chloride also was not detected at a concentration at or exceeding the laboratory PQL in a groundwater sample collected from monitoring well FMW-04 (Table 7). Methylene chloride is a known laboratory contaminant and the inability to reproduce the initial detection at BHO3 despite multiple samples collected in the immediate vicinity of boring BH03 from the same depth of the reported methylene chloride detection indicates that the initial detection of methylene chloride was likely the result of laboratory contamination.

The information provided in this RI Report is sufficient to assess the nature and extent of contamination at Thompson Field. The information in this RI Report is sufficient to prepare a Feasibility Study that will screen cleanup technologies and evaluate technically feasible cleanup alternatives and identify a preferred cleanup alternative for the Thompson Field Site that meets MTCA requirements.



6.0 REFERENCES

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7.0 LIMITATIONS

7.1 GENERAL LIMITATIONS

The conclusions contained in this report/assessment are based on professional opinions with regard to the subject matter. These opinions have been arrived at in accordance with currently accepted hydrogeologic and engineering standards and practices applicable to this location. The conclusions contained herein are subject to the following inherent limitations:

- **Accuracy of Information.** Farallon obtained, reviewed, and evaluated certain information used in this report/assessment from sources that were believed to be reliable. Farallon's conclusions, opinions, and recommendations are based in part on such information. Farallon's services did not include verification of its accuracy or authenticity. Should the information upon which Farallon relied prove to be inaccurate or unreliable, Farallon reserves the right to amend or revise its conclusions, opinions, and/or recommendations.
- **Reconnaissance and/or Characterization.** Farallon performed a reconnaissance and/or characterization of the Thompson Field Site that is the subject of this report/assessment to document current conditions. Farallon focused on areas deemed more likely to exhibit hazardous materials conditions. Contamination may exist in other areas of the Thompson Field Site that were not investigated or were inaccessible. Site activities beyond Farallon's control could change at any time after the completion of this report/assessment.

For the foregoing reasons, Farallon cannot and does not warrant or guarantee that the Thompson Field Site is free of hazardous or potentially hazardous substances or conditions, or that latent or undiscovered conditions will not become evident in the future. Farallon's observations, findings, and opinions can be considered valid only as of the date of the report.

This report/assessment has been prepared in accordance with the contract for services between Farallon and The Estate, and currently accepted industry standards. No other warranties, representations, or certifications are made.

7.2 LIMITATION ON RELIANCE BY THIRD PARTIES

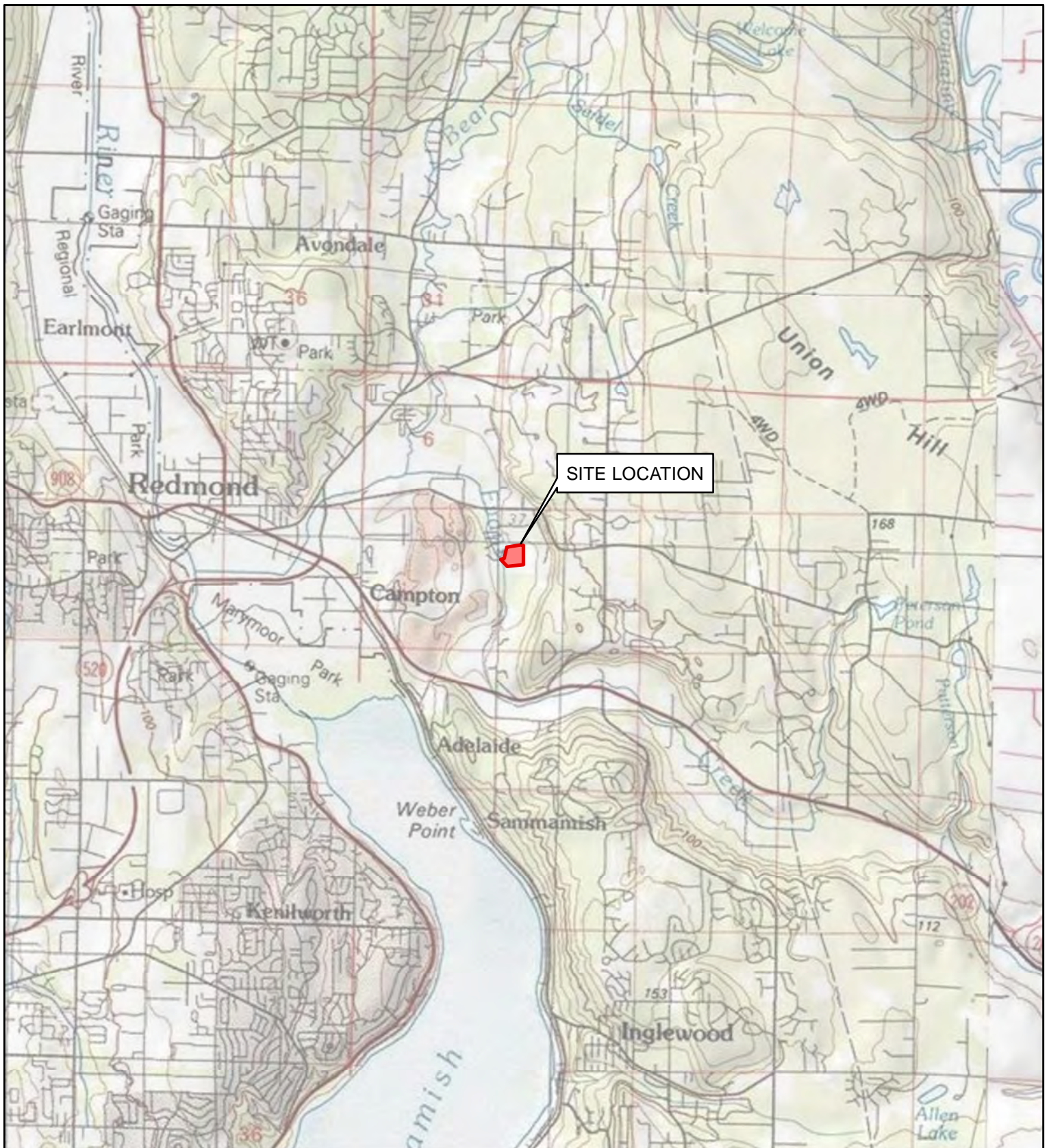
Reliance by third parties is prohibited. This report/assessment has been prepared for the exclusive use of The Estate to address the unique needs of The Estate at the Thompson Field Site at a specific point in time. Nelson Legacy Group, LLC is recognized as an intended user of this report/assessment, subject to the same limitations as The Estate.

This is not a general grant of reliance. No one other than The Estate may rely on this report unless Farallon agrees in advance to such reliance in writing. Any unauthorized use, interpretation, or reliance on this report/assessment is at the sole risk of that party and Farallon will have no liability for such unauthorized use, interpretation, or reliance.

FIGURES

REMEDIAL INVESTIGATION REPORT Thompson Field Site Portion of King County Parcel No. 0825069104 Redmond, WA

Farallon PN: 650-031



REFERENCE: 7.5 MINUTE USGS QUADRANGLE REDMOND, WASHINGTON, DATED 2013



0 5,000
SCALE IN FEET



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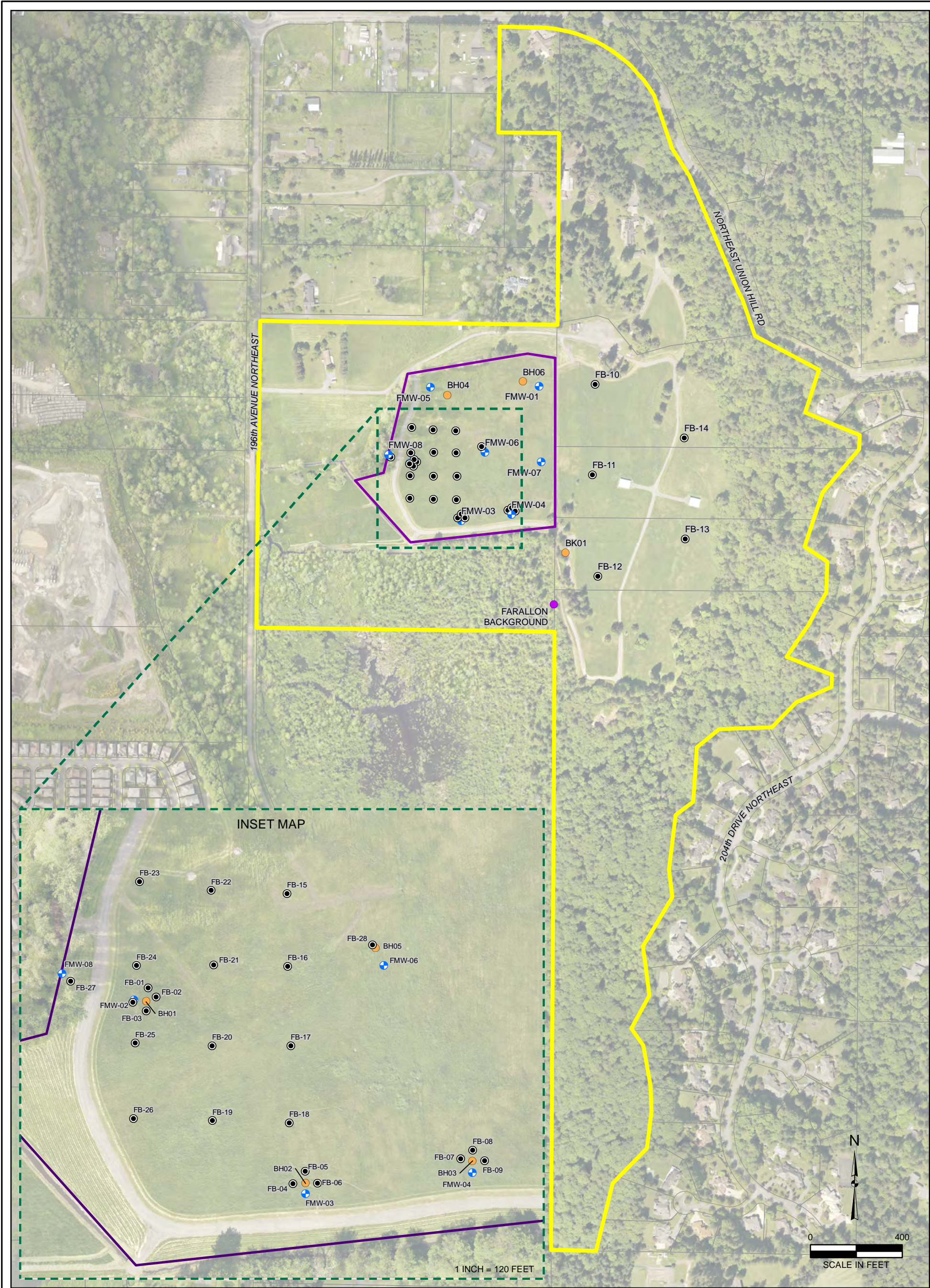
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FIGURE 1

SITE VICINITY MAP
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON
FARALLON PN: 650-031



LEGEND

- MONITORING WELL (FARALLON, 2020)
- BORING (FARALLON, 2020)
- BORING (ECOLOGY & ENVIRONMENT, INC, 2019)
- BACKGROUND GRAB SAMPLE (FARALLON, 2019)
- THOMPSON FIELD BOUNDARY
- PROPERTY BOUNDARY
- KING COUNTY PARCEL BOUNDARY

NOTES:

- ALL LOCATIONS ARE APPROXIMATE.
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FIGURE 2

PROPERTY PLAN
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON

FARALLON PN: 650-031

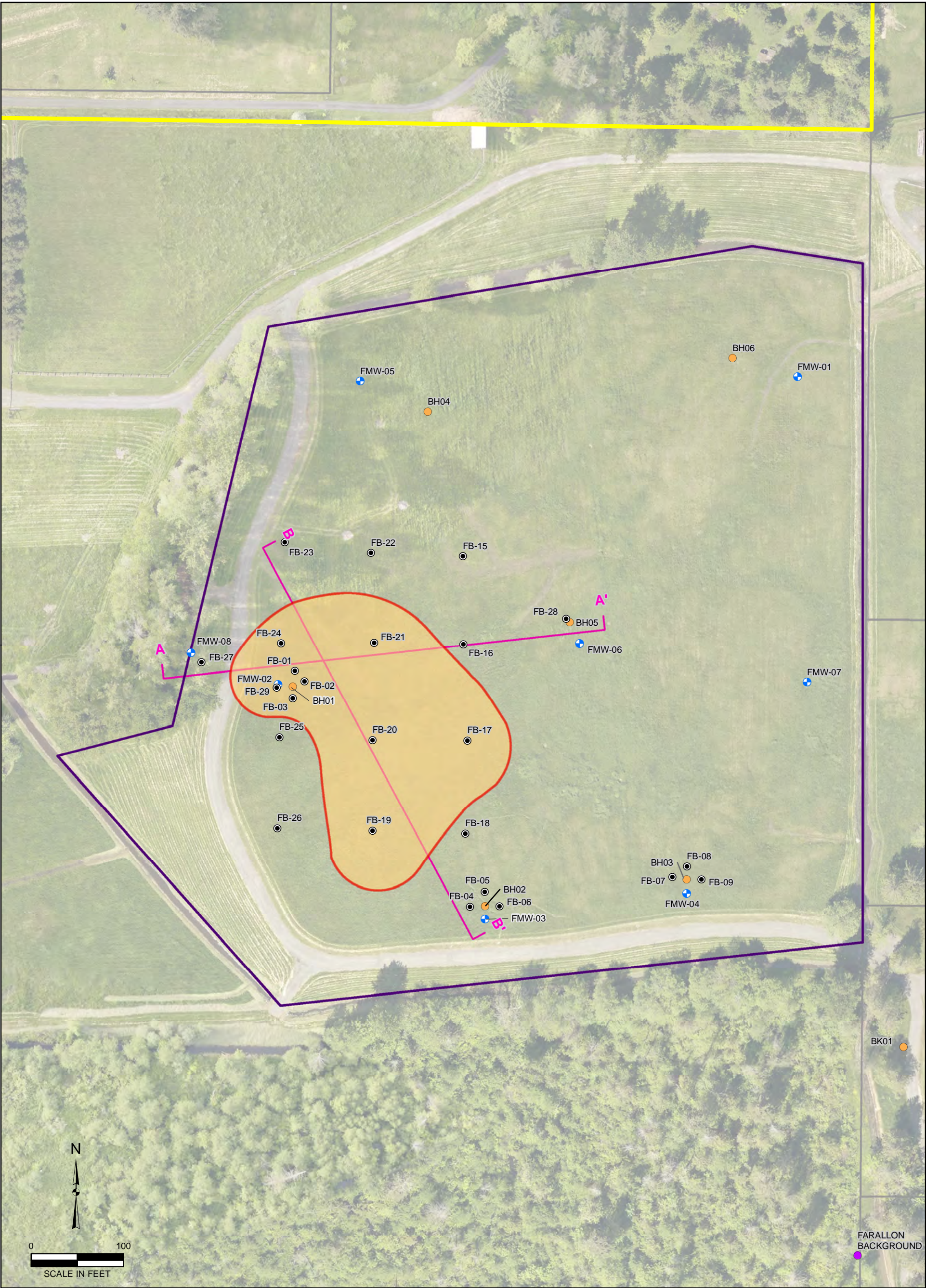
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LEGEND

- MONITORING WELL (FARALLON, 2020)
- BORING (FARALLON, 2020)
- BORING (ECOLOGY & ENVIRONMENT, INC, 2019)
- BACKGROUND GRAB SAMPLE (FARALLON, 2019)
- SOIL CONTAMINATION IDENTIFIED BY THE INVESTIGATIONS CONDUCTED TO DATE
- ESTIMATED SITE BOUNDARY
- PROPERTY BOUNDARY
- THOMPSON FIELD BOUNDARY
- KING COUNTY PARCEL BOUNDARY
- CROSS-SECTION

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FIGURE 3

SITE FIGURE
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON

FARALLON PN: 650-031

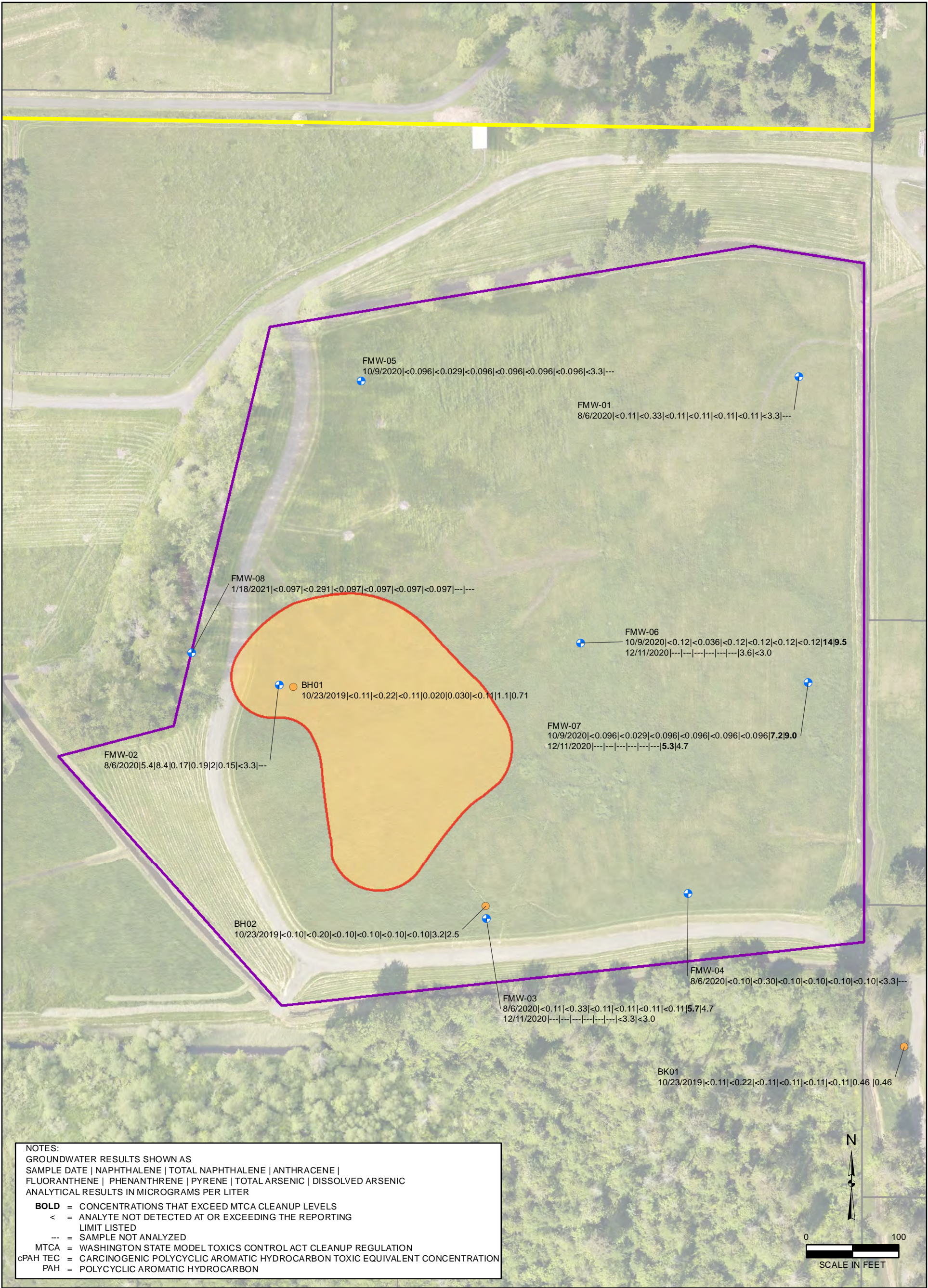
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LEGEND

- MONITORING WELL (FARALLON, 2020)
- BORING (ECOLOGY & ENVIRONMENT, INC, 2019)
- SOIL WITH cPAH TECs ABOVE MTCA METHOD A CLEANUP LEVEL
- ESTIMATED SITE BOUNDARY
- THOMPSON FIELD BOUNDARY
- PROPERTY BOUNDARY
- KING COUNTY PARCEL BOUNDARY



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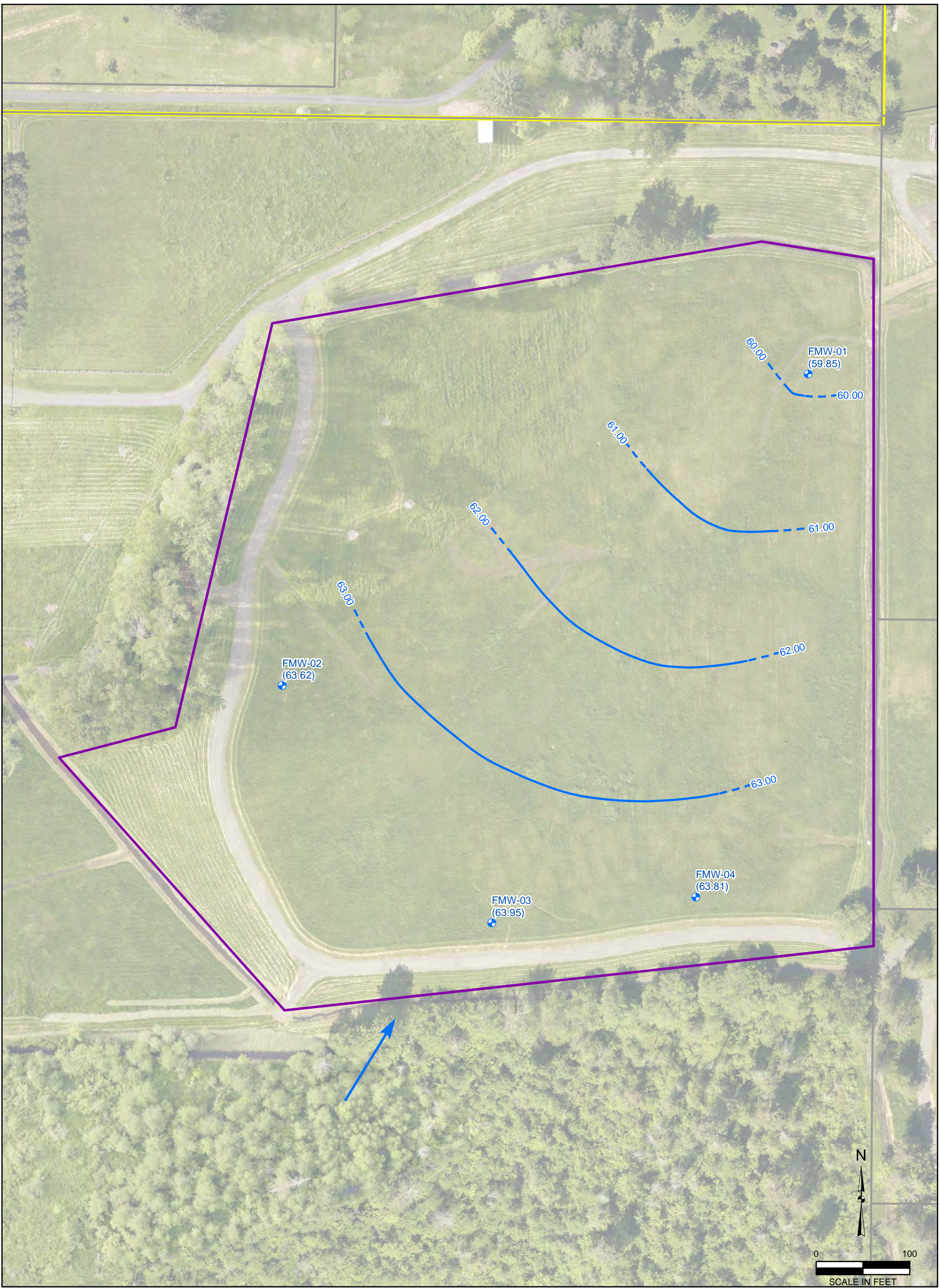
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LEGEND

-  MONITORING WELL (FARALLON, 2020)
-  THOMPSON FIELD BOUNDARY
-  PROPERTY BOUNDARY
-  KING COUNTY PARCEL BOUNDARY
-  INFERRED GROUNDWATER FLOW DIRECTION
-  65.00 — — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  (63.95) GROUNDWATER ELEVATION IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988
- GROUNDWATER GRADIENT OF 0.006 FEET/FOOT

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FIGURE 6
GROUNDWATER FLOW DIRECTION
AUGUST 6, 2020
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON
FARALLON PN: 650-031



LEGEND

- MONITORING WELL (FARALLON, 2020)
- THOMPSON FIELD BOUNDARY
- PROPERTY BOUNDARY
- KING COUNTY PARCEL BOUNDARY
- INFERRED GROUNDWATER FLOW DIRECTION
- 65.00 — GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
- (65.21) GROUNDWATER ELEVATION IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988
- GROUNDWATER GRADIENT OF 0.05 TO 0.007 FEET/FOOT

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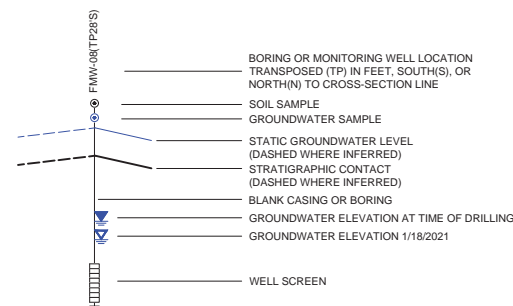
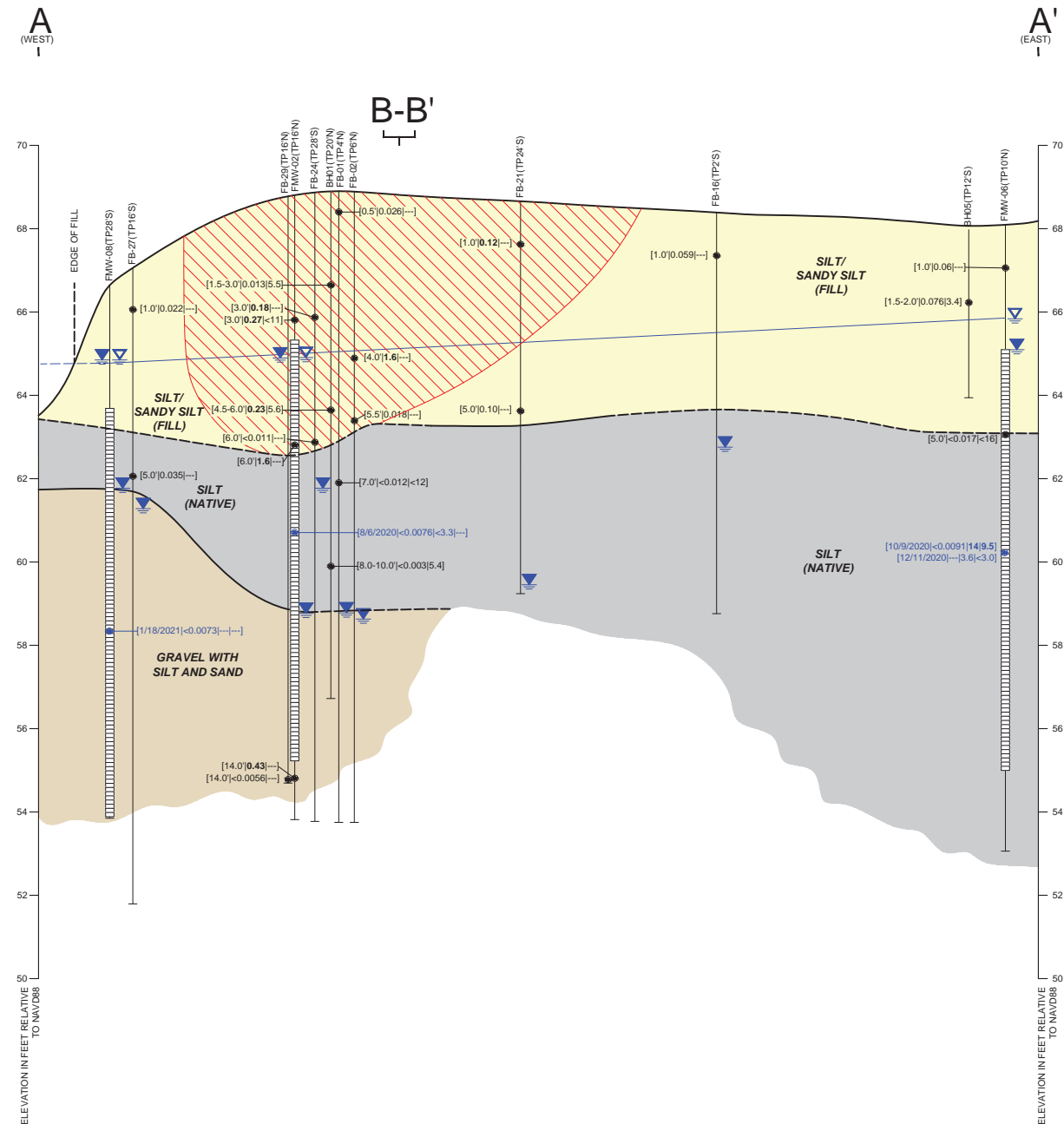
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FIGURE 7
GROUNDWATER FLOW DIRECTION
OCTOBER 9, 2020
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON

FARALLON PN: 650-031



LEGEND

- [1.0]0.022[---]
- [1/18/2021]<0.0073[---]
- <
-
- BOLD**
- MTCA
- NAVD88
- BGS
- CPAHs
- TEC
- = SOIL ANALYTICAL RESULT [DEPTH IN FEET BGS]TOTAL CPAHs TEC[ARSENIC]
IN MILLIGRAMS PER KILOGRAM
- = GROUNDWATER ANALYTICAL RESULT [DATE]TOTAL CPAHs TEC[TOTAL
ARSENIC][DISSOLVED ARSENIC] IN MICROGRAMS PER LITER
- = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE
STATED LABORATORY PRACTICAL QUANTITATION LIMIT
- = SAMPLE NOT ANALYZED
- = INDICATES CONCENTRATIONS EXCEEDING MTCA METHOD A CLEANUP LEVEL
- = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION
- = NORTH AMERICAN VERTICAL DATUM OF 1988
- = BELOW GROUND SURFACE
- = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
- = TOXIC EQUIVALENT CONCENTRATION
- = APPROXIMATE AREA OF SOIL WHERE CPAH TECs EXCEED MTCA METHOD A
CLEANUP LEVELS

- NOTES:
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INFORMATION.



FIGURE 8

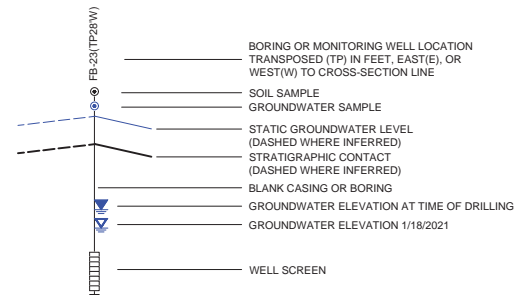
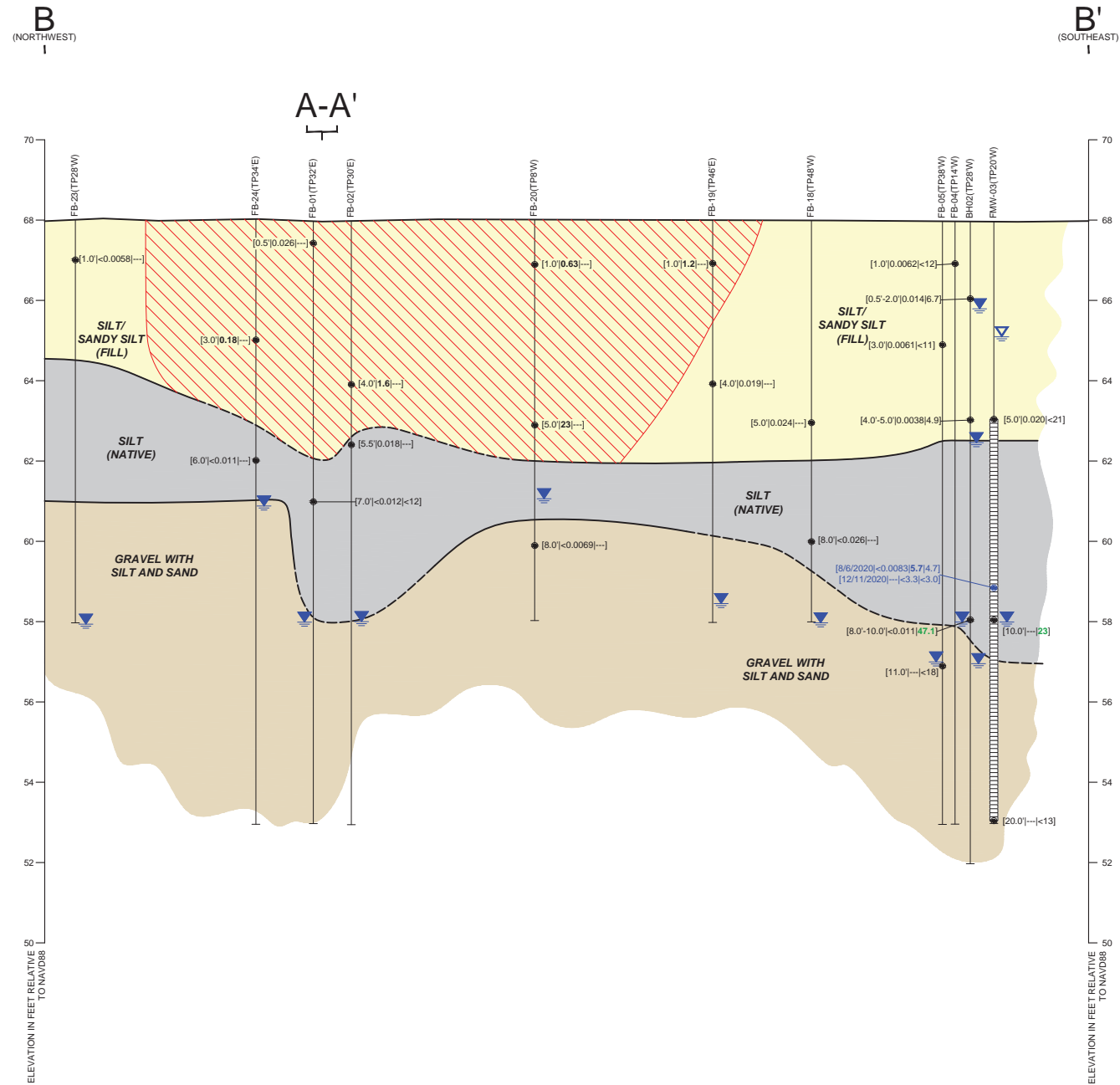
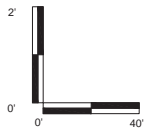
CROSS SECTION A-A'

THOMPSON FIELD PORTION OF
KING COUNTY PARCEL NUMBER 0825089104
REDMOND, WASHINGTON

FARALLON PN:650-031

Drawn By: NM Checked By: SB

Date: 3/4/2021



- LEGEND**
- [8.0']<0.026]<[] = SOIL ANALYTICAL RESULT [DEPTH IN FEET BGS][TOTAL CPAHs TEC][ARSENIC] IN MILLIGRAMS PER KILOGRAM
 - [12/11/2020]<[]<3.3]<3.0] = GROUNDWATER ANALYTICAL RESULT [DATE][TOTAL CPAHs TEC][TOTAL ARSENIC][DISSOLVED ARSENIC] IN MICROGRAMS PER LITER
 - < = INDICATES CONCENTRATIONS NOT DETECTED AT OR EXCEEDING THE STATED LABORATORY PRACTICAL QUANTITATION LIMIT
 - = SAMPLE NOT ANALYZED
 - BOLD** = INDICATES CONCENTRATIONS EXCEEDING MTCA METHOD A CLEANUP LEVEL
 - BOLD** = INDICATES CONCENTRATIONS EXCEEDING ECOLOGICAL SCREENING LEVELS
 - MTCA = WASHINGTON STATE MODEL TOXICS CONTROL ACT CLEANUP REGULATION
 - NAVD88 = NORTH AMERICAN VERTICAL DATUM OF 1988
 - BGS = BELOW GROUND SURFACE
 - CPAHs = CARCINOGENIC POLYCYCLIC AROMATIC HYDROCARBONS
 - TEC = TOXIC EQUIVALENT CONCENTRATION
 - [] = APPROXIMATE AREA OF SOIL WHERE CPAH TECS EXCEED MTCA METHOD A CLEANUP LEVELS

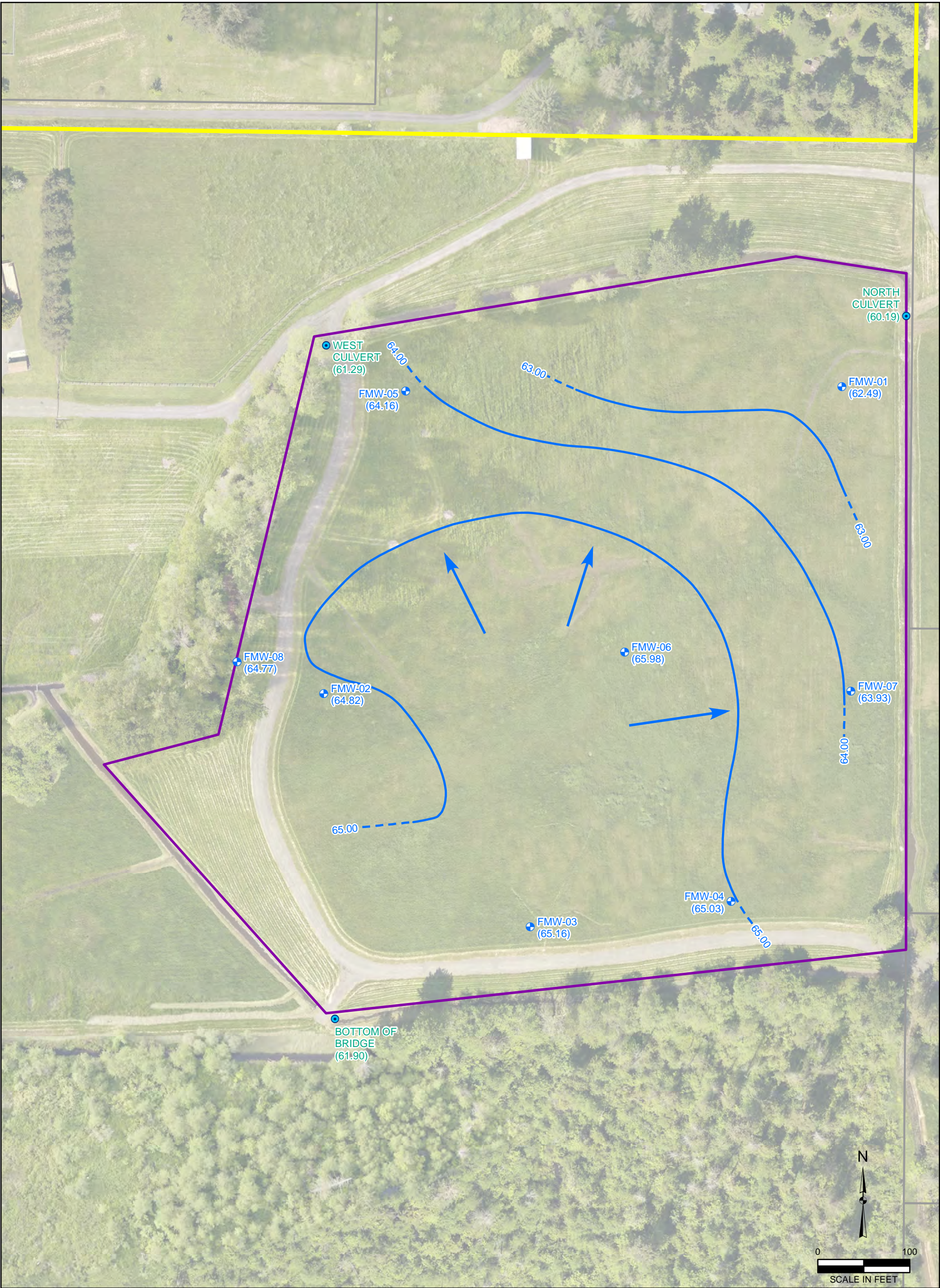
NOTES:
1. ALL LOCATIONS ARE APPROXIMATE
2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.












FIGURE 9
CROSS SECTION B-B'
THOMPSON FIELD PORTION OF
KING COUNTY PARCEL NUMBER 0825089104
REDMOND, WASHINGTON
FARALLON PN:650-031

Drawn By: NM Checked By: SB

Date: 3/4/2021



LEGEND

-  SURFACE WATER MONITORING LOCATION (2021)
-  MONITORING WELL (FARALLON, 2020)
-  THOMPSON FIELD BOUNDARY
-  PROPERTY BOUNDARY
-  KING COUNTY PARCEL BOUNDARY
-  INFERRED GROUNDWATER FLOW DIRECTION
-  GROUNDWATER ELEVATION CONTOUR (DASHED WHERE INFERRED)
-  (65.21) GROUNDWATER ELEVATION IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988
-  (61.90) SURFACE GROUNDWATER ELEVATION IN FEET RELATIVE TO NORTH AMERICAN VERTICAL DATUM OF 1988

GROUNDWATER GRADIENT OF
0.02 TO 0.0125 FEET/FOOT

NOTES:
1. ALL LOCATIONS ARE APPROXIMATE.
2. FIGURES WERE PRODUCED IN COLOR. GRAYSACLE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.



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FIGURE 10
GROUNDWATER FLOW DIRECTION
JANUARY 18, 2021
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON

FARALLON PN: 650-031

Drawn By: jjones

Checked By: SB

Date: 3/24/2021

Disc Reference:

Path: Q:\Projects\650 Nelson Properties\650031 Gunshy Farm\Mapfiles\006_Results_202103\Figure-10_GW-2021-01-18.mxd

TABLES

REMEDIAL INVESTIGATION REPORT Thompson Field Site Portion of King County Parcel No. 0825069104 Redmond, WA

Farallon PN: 650-031

Table 1
Groundwater Elevations
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Location | Top of Monument Elevation (feet NAVD88) ¹ | Top of Casing Elevation (feet NAVD88) ¹ | Monitoring Date | Depth to Water (feet) ² | Water Level Elevation (feet NAVD88) ¹ |
|----------|--|--|-----------------|---------------------------------------|--|
| FMW-01 | 66.86 | 66.45 | 8/6/2020 | 6.60 | 59.85 |
| | | | 10/9/2020 | 6.33 | 60.12 |
| | | | 11/9/2020 | 5.61 | 60.84 |
| | | | 11/30/2020 | 5.20 | 61.25 |
| | | | 12/11/2020 | 5.31 | 61.14 |
| | | | 1/8/2021 | 3.50 | 62.95 |
| | | | 1/18/2021 | 3.96 | 62.49 |
| FMW-02 | 69.09 | 68.80 | 8/6/2020 | 5.18 | 63.62 |
| | | | 10/9/2020 | 4.94 | 63.86 |
| | | | 11/9/2020 | 4.64 | 64.16 |
| | | | 11/30/2020 | 4.48 | 64.32 |
| | | | 12/11/2020 | 4.46 | 64.34 |
| | | | 1/8/2021 | 3.73 | 65.07 |
| | | | 1/18/2021 | 3.98 | 64.82 |
| FMW-03 | 68.22 | 67.90 | 8/6/2020 | 3.95 | 63.95 |
| | | | 10/9/2020 | 3.64 | 64.26 |
| | | | 11/9/2020 | 3.36 | 64.54 |
| | | | 11/30/2020 | 3.20 | 64.70 |
| | | | 12/11/2020 | 3.17 | 64.73 |
| | | | 1/8/2021 | 2.51 | 65.39 |
| | | | 1/18/2021 | 2.74 | 65.16 |
| FMW-04 | 68.45 | 68.09 | 8/6/2020 | 4.28 | 63.81 |
| | | | 10/9/2020 | 4.06 | 64.03 |
| | | | 11/9/2020 | 3.76 | 64.33 |
| | | | 11/30/2020 | 3.59 | 64.50 |
| | | | 12/11/2020 | 3.55 | 64.54 |
| | | | 1/8/2021 | 2.55 | 65.54 |
| | | | 1/18/2021 | 3.06 | 65.03 |
| FMW-05 | 69.10 | 68.83 | 10/9/2020 | 6.01 | 62.82 |
| | | | 11/9/2020 | 5.61 | 63.22 |
| | | | 11/30/2020 | 5.36 | 63.47 |
| | | | 12/11/2020 | 5.41 | 63.42 |
| | | | 1/8/2021 | 4.39 | 64.44 |
| | | | 1/18/2021 | 4.67 | 64.16 |
| FMW-06 | 68.46 | 68.21 | 10/9/2020 | 3.00 | 65.21 |
| | | | 11/9/2020 | 2.66 | 65.55 |
| | | | 11/30/2020 | 2.28 | 65.93 |
| | | | 12/11/2020 | 2.26 | 65.95 |
| | | | 1/8/2021 | 1.15 | 67.06 |
| | | | 1/18/2021 | 2.23 | 65.98 |
| FMW-07 | 66.37 | 66.04 | 10/9/2020 | 3.01 | 63.03 |
| | | | 11/9/2020 | 2.22 | 63.82 |
| | | | 11/30/2020 | 1.92 | 64.12 |
| | | | 12/11/2020 | 2.03 | 64.01 |
| | | | 1/8/2021 | 1.96 | 64.08 |
| | | | 1/18/2021 | 2.11 | 63.93 |
| FMW-08 | 66.91 | 66.68 | 1/18/2021 | 1.91 | 64.77 |

Table 1
Groundwater Elevations
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Location | Top of Monument Elevation (feet NAVD88) ¹ | Top of Casing Elevation (feet NAVD88) ¹ | Monitoring Date | Depth to Water (feet) ² | Water Level Elevation (feet NAVD88) ¹ |
|------------------|--|--|-----------------|---------------------------------------|--|
| Surface Water | | | | | |
| Bottom of Bridge | NA | 67.00 | 12/11/2020 | 5.15 | 61.85 |
| | | | 1/8/2021 | 4.74 | 62.26 |
| | | | 1/18/2021 | 5.10 | 61.90 |
| West Culvert | NA | 62.44 | 12/11/2020 | -- | -- |
| | | | 1/8/2021 | 0.85 | 61.59 |
| | | | 1/18/2021 | 1.15 | 61.29 |
| North Culvert | NA | 62.54 | 12/11/2020 | 2.31 | 60.23 |
| | | | 1/8/2021 | 2.15 | 60.39 |
| | | | 1/18/2021 | 2.35 | 60.19 |

Notes:

¹ In feet referenced to North American Vertical Datum of 1988 (NAVD88).

² In feet below top of well casing.

Table 2
Soil Analytical Results for Total Petroleum Hydrocarbons and BTEX
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Type | Sampled By | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) | | | | | | | |
|--|-------------|------------|-----------------------|----------------------------------|-------------|--|-------|--|-------|------------------------|-----------|--------------|------------|
| | | | | | | NWTPH-Dx ² | | NWTPH-Dx Silica Gel Cleanup ² | | EPA 8260D ³ | | | |
| | | | | | | DRO | ORO | DRO | ORO | Benzene | Toluene | Ethylbenzene | Xylenes |
| BH01 | Split | E&E | BH01SB01 | 1.5-3.0 | 10/23/2019 | < 39 | < 97 | --- | --- | < 0.0055 | < 0.0055 | < 0.0055 | < 0.011 |
| | | Farallon | BH01-01 | 2.5 | 10/23/2019 | < 29 | 64 | < 29 | < 58 | --- | --- | --- | --- |
| | Split | E&E | BH01SB02 | 4.5-6.0 | 10/23/2019 | < 42 | < 110 | --- | --- | < 0.0055 | < 0.0055 | 0.0029 J | 0.00636 J |
| | | Farallon | BH01-02 | 7.5 | 10/23/2019 | 40 N | 180 | 40 N | 130 | --- | --- | --- | --- |
| | Split | E&E | BH01SB03 | 8.0-10.0 | 10/23/2019 | < 36 | < 89 | --- | --- | < 0.010 | < 0.010 | < 0.010 | < 0.020 |
| | | Farallon | BH01-03 | 10.0 | 10/23/2019 | < 29 | < 59 | < 29 | < 59 | --- | --- | --- | --- |
| BH02 | Split | E&E | BH02SB01 | 0.5-2.0 | 10/23/2019 | < 38 | 500 | --- | --- | < 0.0045 | < 0.0045 | < 0.0045 | < 0.0090 |
| | | Farallon | BH02-01 | 2.0-4.0 | 10/23/2019 | < 45 | 490 | < 55 | 340 | --- | --- | --- | --- |
| | Split | E&E | BH02SB02 | 4.0-5.0 | 10/23/2019 | < 64 | < 160 | --- | --- | < 0.0065 | < 0.0065 | < 0.0065 | < 0.013 |
| | | Farallon | BH02-02 | 5.0-6.0 | 10/23/2019 | 190 N | 1,000 | 46 N | 200 | --- | --- | --- | --- |
| | Split | Farallon | BH02-03 | 8.0-10.0 | 10/23/2019 | < 120 | 740 | < 120 | < 230 | --- | --- | --- | --- |
| | | E&E | BH02SB03 | 8.0-10.0 | 10/23/2019 | < 140 | < 360 | --- | --- | < 0.071 UJ | 0.014 J | < 0.071 UJ | < 0.142 UJ |
| BH03 | Split | E&E | BH03SB01 | 1.5-3.0 | 10/23/2019 | < 40 | < 99 | --- | --- | < 0.0049 | < 0.0049 | < 0.0049 | < 0.0098 |
| | | Farallon | BH03-01 | 2.0-4.0 | 10/23/2019 | < 28 | 110 | < 28 | 77 | --- | --- | --- | --- |
| | Split | E&E | BH03SB02 | 4.5-6.0 | 10/23/2019 | < 61 | < 150 | --- | --- | < 0.017 | 0.0047 J | < 0.017 | < 0.034 |
| | | Farallon | BH03-02 | 6.0-7.5 | 10/23/2019 | 200 N | 710 | 60 N | 100 | --- | --- | --- | --- |
| BH04 | Normal | E&E | BH04SB01 | 0.5-1.0 | 11/6/2019 | < 40 | < 100 | --- | --- | < 0.0045 | < 0.0045 | < 0.0045 | < 0.0090 |
| | Split | E&E | BH04SB02 | 2.0-2.5 | 11/6/2019 | < 42 | < 100 | --- | --- | < 0.0057 | 0.00083 J | < 0.0057 | < 0.0114 |
| | | Farallon | BH04-02 | 2.0-2.5 | 11/6/2019 | < 29 | 450 | < 29 | 270 | --- | --- | --- | --- |
| BH05 | Split | E&E | BH05SB01 | 1.5-2.0 | 11/6/2019 | < 38 | < 96 | --- | --- | < 0.0051 | < 0.0051 | < 0.0051 | < 0.0102 |
| | | Farallon | BH05-02 | 1.5-2.0 | 11/6/2019 | < 29 | 170 | < 29 | 110 | --- | --- | --- | --- |
| | | E&E | BH05SB02 | 1.5-2.0 | 11/6/2019 | < 39 | 140 | --- | --- | < 0.0060 | < 0.0060 | < 0.0060 | < 0.0120 |
| BH06 | Normal | E&E | BH06SB01 | 1.0-1.8 | 11/6/2019 | < 39 | < 97 | --- | --- | < 0.0049 | < 0.0049 | < 0.0049 | < 0.0098 |
| | Split | E&E | BH06SB02 | 2.5-3.0 | 11/6/2019 | < 38 | < 96 | --- | --- | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0130 |
| | | Farallon | BH06-02 | 2.5-3.0 | 11/6/2019 | < 32 | < 63 | < 32 | < 63 | --- | --- | --- | --- |
| Farallon Background | Normal | Farallon | Farallon Background | 0.0 | 11/6/2019 | < 54 | 320 | < 54 | < 110 | --- | --- | --- | --- |
| FB-01 | Normal | Farallon | FB-01-7.0 | 7.0 | 7/30/2020 | --- | --- | < 59 | < 120 | --- | --- | --- | --- |
| FB-02 | Normal | Farallon | FB-02-5.5 | 5.5 | 7/30/2020 | --- | --- | < 32 | 80 | --- | --- | --- | --- |
| FB-03 | Normal | Farallon | FB-03-6.0 | 6.0 | 7/30/2020 | --- | --- | < 72 | 230 | --- | --- | --- | --- |
| FB-04 | Normal | Farallon | FB-04-1.0 | 1.0 | 7/30/2020 | --- | --- | < 29 | 65 | --- | --- | --- | --- |
| FB-05 | Normal | Farallon | FB-05-3.0 | 3.0 | 7/30/2020 | --- | --- | < 28 | 61 | --- | --- | --- | --- |
| FB-06 | Normal | Farallon | FB-06-6.0 | 6.0 | 7/30/2020 | --- | --- | < 120 | 340 | --- | --- | --- | --- |
| FB-07 | Normal | Farallon | FB-07-5.0 | 5.0 | 7/31/2020 | --- | --- | 41 N | 160 | < 0.0021 | < 0.010 | < 0.0021 | < 0.0062 |
| FB-08 | Normal | Farallon | FB-08-5.5 | 5.5 | 7/31/2020 | --- | --- | < 99 | 260 | < 0.0068 | < 0.034 | < 0.0068 | < 0.0208 |
| FB-09 | Normal | Farallon | FB-09-5.0 | 5.0 | 7/31/2020 | --- | --- | 34 N | 88 | < 0.0012 | < 0.0061 | < 0.0012 | < 0.0036 |
| FB-26 | Normal | Farallon | FB-26-5.0 | 5.0 | 10/1/2020 | < 56 | 310 | < 56 | < 110 | --- | --- | --- | --- |
| MTCA Method A Cleanup Levels for Soil ⁴ | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 |

Table 2
Soil Analytical Results for Total Petroleum Hydrocarbons and BTEX
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Type | Sampled By | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) | | | | | | | |
|--|-------------|------------|-----------------------|----------------------------------|-------------|--|-------|--|-------|------------------------|----------|--------------|----------|
| | | | | | | NWTPH-Dx ² | | NWTPH-Dx Silica Gel Cleanup ² | | EPA 8260D ³ | | | |
| | | | | | | DRO | ORO | DRO | ORO | Benzene | Toluene | Ethylbenzene | Xylenes |
| FMW-02 | Normal | Farallon | FMW-02-3.0 | 3.0 | 7/30/2020 | --- | --- | 60 N | 260 | --- | --- | --- | --- |
| FMW-03 | Normal | Farallon | FMW-03-5.0 | 5.0 | 7/31/2020 | --- | --- | < 100 | 210 | --- | --- | --- | --- |
| FMW-04 | Normal | Farallon | FMW-04-6.0 | 6.0 | 7/31/2020 | --- | --- | 41 N | 120 | < 0.0017 | < 0.0084 | < 0.0017 | < 0.0050 |
| FMW-05 | Normal | Farallon | FMW-05-1.0 | 1.0 | 10/1/2020 | < 30 | 210 | < 30 | 120 | --- | --- | --- | --- |
| FMW-06 | Normal | Farallon | FMW-06-5.0 | 5.0 | 10/1/2020 | < 81 | 300 | < 81 | < 160 | --- | --- | --- | --- |
| FMW-07 | Normal | Farallon | FMW-07-1.0 | 1.0 | 10/1/2020 | < 28 | < 57 | < 28 | < 57 | --- | --- | --- | --- |
| Upland Sample Locations | | | | | | | | | | | | | |
| FB-10 | Normal | Farallon | FB-10-1.0 | 1.0 | 9/30/2020 | < 29 | 73 | < 29 | < 59 | --- | --- | --- | --- |
| FB-12 | Normal | Farallon | FB-12-1.0 | 1.0 | 9/30/2020 | < 29 | < 58 | < 29 | < 58 | --- | --- | --- | --- |
| FB-13 | Normal | Farallon | FB-13-3.0 | 3.0 | 9/30/2020 | < 28 | < 55 | < 28 | < 55 | --- | --- | --- | --- |
| MTCA Method A Cleanup Levels for Soil ⁴ | | | | | | 2,000 | 2,000 | 2,000 | 2,000 | 0.03 | 7 | 6 | 9 |

NOTES:

< 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 treated without and with a silica gel cleanup process.

³Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260D.

⁴Washington 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.

BTEX = benzene, toluene, ethylbenzene, and xylenes

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

E&E = Ecology and Environment, Inc.

Farallon = Farallon Consulting, L.L.C.

J = result is an estimate

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

ORO = TPH as oil-range organics

UJ = analyte not detected and reporting limit is an estimate

Table 3
Soil Analytical Results for Volatile Organic Compounds
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) ² | | | |
|---|-----------------------|-------------------------------------|-------------|---|---------------|------------------|-------------------------|
| | | | | 2-Butanone (Methyl Ethyl Ketone) | Acetone | Carbon Disulfide | Methylene Chloride |
| BH01 | BH01SB01 | 1.5-3.0 | 10/23/2019 | < 0.011 | 0.0077 J | < 0.0055 | 0.0036 J |
| | BH01SB02 | 4.5-6.0 | 10/23/2019 | 0.017 | 0.055 | 0.00091 J | < 0.0055 |
| | BH01SB03 | 8.0-10.0 | 10/23/2019 | < 0.020 | 0.025 | < 0.010 | < 0.010 |
| BH02 | BH02SB01 | 0.5-2.0 | 10/23/2019 | < 0.0091 | 0.019 | < 0.0045 | < 0.0045 |
| | BH02SB02 | 4.0-5.0 | 10/23/2019 | < 0.013 | 0.026 | < 0.0065 | < 0.0065 |
| | BH02SB03 | 8.0-10.0 | 10/23/2019 | 0.25 J | 0.66 J | 0.025 J | 0.062 J |
| BH03 | BH03SB01 | 1.5-3.0 | 10/23/2019 | 0.0079 J | 0.041 | < 0.0049 | < 0.0049 |
| | BH03SB02 | 4.5-6.0 | 10/23/2019 | 0.26 | 0.78 | < 0.017 | 0.023 |
| BH04 | BH04SB01 | 0.5-1.0 | 11/6/2019 | < 0.0089 | < 0.0089 | < 0.0045 | < 0.0045 |
| | BH04SB02 | 2.0-2.5 | 11/6/2019 | 0.0055 J | < 0.031 | < 0.0057 | < 0.0057 |
| BH05 | BH05SB01 | 1.5-2.0 | 11/6/2019 | < 0.010 | < 0.025 | < 0.0051 | < 0.0051 |
| BH06 | BH06SB01 | 1.0-1.8 | 11/6/2019 | < 0.0099 | < 0.011 | < 0.0049 | < 0.0049 |
| | BH06SB02 | 2.5-3.0 | 11/6/2019 | 0.006 J | < 0.070 | < 0.0065 | < 0.0065 |
| FB-07 | FB-07-5.0 | 5.0 | 7/31/2020 | 0.23 | 1.0 J | 0.024 | < 0.010 |
| FB-08 | FB-08-5.5 | 5.5 | 7/31/2020 | 0.94 | 4.5 E | < 0.0068 | < 0.034 |
| FB-09 | FB-09-5.0 | 5.0 | 7/31/2020 | 0.031 | 0.22 J | < 0.0012 | < 0.0061 |
| FMW-04 | FMW-04-6.0 | 6.0 | 7/31/2020 | 0.049 | 0.50 J | < 0.0017 | < 0.0084 |
| MTCA Cleanup Levels for Soil ³ | | | | 48,000 | 72,000 | 8,000 | 0.02⁴ |

NOTES:

Results in **bold** and highlighted **yellow** denote concentrations exceeding MTCA cleanup levels.

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

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 8260/8260D. Only detected and select analytes shown in table; see lab report for full list of analytes.

³Washington State Cleanup Levels and Risk Calculations (CLARC) under Washington State MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet updated January 2020, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC> unless otherwise noted.

⁴Washington 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.

E = result exceeds the quantitation range and is an estimate

J = result is an estimate

Table 4
Soil Analytical Results for PAHs
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) ² | | | | | | | | | | | | | | | | | | | |
|-----------------|-----------------------|----------------------------------|-------------|---|---------------------|---------------------|---------------------------------|--------------|----------------|------------|----------------------|--------------|------------|-------------------|----------|----------------|--------------------|----------------------|------------------------|----------|------------------------|------------------------|--------------------------------|
| | | | | Non-Carcinogenic PAHs | | | | | | | | | | Carcinogenic PAHs | | | | | | | | | |
| | | | | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Total Naphthalenes ³ | Acenaphthene | Acenaphthylene | Anthracene | Benzo(g,h,i)Perylene | Fluoranthene | Fluorene | Phenanthrene | Pyrene | Benzo(a)Pyrene | Benzo(a)Anthracene | Benzo(b)Fluoranthene | Benzo(j,k)Fluoranthene | Chrysene | Dibenzo(a,h)Anthracene | Indeno(1,2,3-cd)Pyrene | Total cPAHs TEC ^{4,5} |
| BK01 | BK01SB01 | 2.5-3.0 | 10/23/2019 | < 0.0041 | --- | < 0.0041 | < 0.0082 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0031 | |
| | BK01SB02 | 4.5-6.0 | 10/23/2019 | < 0.0041 | --- | < 0.0041 | < 0.0082 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0041 | < 0.0031 | |
| | BK01SB03 | 8.0-10 | 10/23/2019 | < 0.0042 | --- | < 0.0042 | < 0.0084 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0042 | < 0.0032 | |
| BH01 | BH01SB01 | 1.5-3.0 | 10/23/2019 | 0.0026 J | --- | 0.0011 J | 0.0037 | 0.0042 | < 0.0039 | 0.0062 | 0.0064 | 0.025 | 0.005 | 0.026 | 0.022 | 0.010 | 0.0099 | 0.013 | 0.0041 | 0.0093 | 0.0014 J | 0.0055 | 0.013 |
| | BH01SB02 | 4.5-6.0 | 10/23/2019 | 0.14 | --- | 0.033 | 0.173 | 0.077 | 0.0035 J | 0.12 | 0.089 | 0.58 J | 0.12 | 0.61 | 0.55 | 0.16 | 0.23 | 0.23 | 0.061 | 0.24 | 0.031 | 0.082 | 0.23 |
| | BH01SB03 | 8.0-10.0 | 10/23/2019 | < 0.004 | --- | < 0.004 | < 0.008 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.004 | < 0.003 | |
| BH02 | BH02SB01 | 0.5-2.0 | 10/23/2019 | 0.0055 | --- | 0.006 | 0.0115 | 0.0046 | 0.0038 J | 0.009 | 0.0067 | 0.043 | 0.0081 | 0.053 | 0.0310 | 0.0096 | 0.019 | 0.016 | 0.0041 | 0.024 | 0.0019 J | 0.0048 | 0.014 |
| | BH02SB02 | 4.0-5.0 | 10/23/2019 | 0.0011 J | --- | < 0.0051 | 0.0011 | 0.0013 J | < 0.0051 | < 0.0051 | < 0.0051 | 0.0016 J | 0.0012 J | 0.0026 J | 0.0015 J | < 0.0051 | < 0.0051 | 0.0017 J | < 0.0051 | 0.0013 J | < 0.0051 | < 0.0051 | 0.0038 |
| | BH02SB03 | 8.0-10.0 | 10/23/2019 | < 0.014 | --- | < 0.014 | < 0.028 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.014 | < 0.011 | |
| BH03 | BH03SB01 | 1.5-3.0 | 10/23/2019 | 0.0054 | --- | 0.0064 | 0.0118 | 0.0095 | < 0.0037 | 0.013 | 0.0018 J | 0.026 | 0.011 | 0.032 | 0.021 | 0.0036 J | 0.007 | 0.0054 | 0.0019 J | 0.0048 | < 0.0037 | 0.0018 J | 0.0054 |
| | BH03SB02 | 4.5-6.0 | 10/23/2019 | 0.0023 J | --- | 0.0020 J | 0.0043 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0065 | < 0.0049 | |
| BH04 | BH04SB01 | 0.5-1.0 | 11/6/2019 | < 0.0039 | --- | < 0.0039 | < 0.0078 | < 0.0039 | < 0.0039 | < 0.0039 | 0.0010 J | 0.0025 J | < 0.0039 | 0.0021 J | 0.0032 J | 0.0012 J | 0.0016 J | 0.0017 J | 0.0011 J | 0.0017 J | < 0.0039 | 0.0008 J | 0.0019 |
| | BH04SB02 | 2.0-2.5 | 11/6/2019 | 0.0010 J | --- | 0.0010 J | 0.0020 | < 0.0038 | < 0.0038 | 0.0012 J | 0.0025 J | 0.0028 J | 0.0009 J | 0.0027 J | 0.0038 | 0.0021 J | 0.0022 J | 0.0030 J | 0.0021 J | 0.0031 J | 0.0014 J | 0.0020 J | 0.0032 |
| BH05 | BH05SB01 | 1.5-2.0 | 11/6/2019 | 0.0085 | --- | 0.0049 | 0.0134 | 0.0042 | 0.0056 | 0.012 | 0.039 | 0.11 | 0.0032 J | 0.051 | 0.14 | 0.054 | 0.068 | 0.078 | 0.025 | 0.072 | 0.009 | 0.031 | 0.076 |
| | BH05SB02 | 1.5-2.0 | 11/6/2019 | 0.002 J | --- | 0.0018 J | 0.0038 | 0.0032 J | 0.0017 J | 0.0066 | 0.014 | 0.038 | 0.0022 J | 0.032 | 0.054 | 0.019 | 0.02 | 0.021 | 0.0081 | 0.023 | 0.0031 | 0.011 | 0.026 |
| BH06 | BH06SB01 | 1.0-1.8 | 11/6/2019 | < 0.0040 | --- | < 0.0040 | < 0.0080 | < 0.0040 | < 0.0040 | < 0.0040 | 0.0035 J | 0.0062 | < 0.0040 | 0.0036 J | 0.0094 | 0.0047 | 0.0044 | 0.0057 | 0.0022 J | 0.0049 | 0.0009 J | 0.0027 J | 0.0063 |
| | BH06SB02 | 2.5-3.0 | 11/6/2019 | < 0.0037 | --- | < 0.0037 | < 0.0074 | < 0.0037 | < 0.0037 | < 0.0037 | 0.0012 J | 0.0024 J | < 0.0037 | 0.0014 J | 0.0042 | 0.0018 J | 0.0019 J | 0.0024 J | 0.0011 J | 0.0021 J | < 0.0037 | 0.0010 J | 0.0026 |
| FB-01 | FB-01-0.5 | 0.5 | 7/30/2020 | 0.0079 | < 0.0074 | < 0.0074 | 0.0079 | < 0.0074 | < 0.0074 | < 0.0074 | 0.013 | 0.034 | < 0.0074 | 0.028 | 0.033 | 0.020 | 0.017 | 0.022 | < 0.0074 | 0.019 | < 0.0074 | 0.013 | 0.026 |
| | FB-01-7.0 | 7.0 | 7/30/2020 | < 0.016 | < 0.016 | < 0.016 | < 0.048 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.016 | < 0.012 |
| FB-02 | FB-02-4.0 | 4.0 | 7/30/2020 | 4.6 | 1.4 | 2.0 | 8.0 | 3.0 | 0.045 | 1.4 | 0.59 | 5.7 | 3.2 | 9.5 | 4.3 | 1.2 | 1.6 | 1.2 | 0.49 | 1.5 | 0.13 | 0.60 | 1.6 |
| | FB-02-5.5 | 5.5 | 7/30/2020 | 0.17 | < 0.018 | < 0.018 | 0.17 | < 0.018 | < 0.018 | < 0.018 | 0.019 | 0.04 | 0.025 | 0.044 | 0.033 | < 0.018 | < 0.018 | 0.037 | < 0.018 | 0.028 | < 0.018 | 0.019 | 0.018 |
| FB-03 | FB-03-1.0 | 1.0 | 7/30/2020 | 0.025 | 0.0084 | 0.018 | 0.0514 | 0.034 | 0.010 | 0.069 | 0.12 | 0.40 | 0.029 | 0.29 | 0.40 | 0.21 | 0.20 | 0.21 | 0.077 | 0.20 | 0.025 | 0.13 | 0.28 |
| | FB-03-6.0 | 6.0 | 7/30/2020 | 2.1 | 0.18 | 0.25 | 2.5 | 0.12 | < 0.019 | 0.028 | 0.023 | 0.12 | 0.074 | 0.17 | 0.082 | 0.022 | 0.037 | 0.044 | < 0.019 | 0.042 | < 0.019 | 0.023 | 0.035 |
| FB-04 | FB-04-1.0 | 1.0 | 7/30/2020 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0231 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | 0.0098 | < 0.0077 | < 0.0077 | 0.0097 | < 0.0077 | < 0.0077 | 0.0079 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | 0.0062 |
| FB-05 | FB-05-3.0 | 3.0 | 7/30/2020 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0225 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | 0.012 | < 0.0075 | 0.0085 | 0.012 | < 0.0075 | < 0.0075 | 0.0077 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | 0.0061 |
| FB-06 | FB-06-6.0 | 6.0 | 7/30/2020 | < 0.031 | 0.036 | < 0.031 | 0.036 | 0.10 | < 0.031 | 0.037 | < 0.031 | 0.10 | 0.15 | 0.28 | 0.055 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.023 |
| FB-07 | FB-07-5.0 | 5.0 | 7/31/2020 | 0.041 | 0.028 | 0.031 | 0.10 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | 0.016 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0086 | < 0.0065 |
| FB-08 | FB-08-5.5 | 5.5 | 7/31/2020 | < 0.026 | < 0.026 | < 0.026 | < 0.078 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.040 U1 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.026 | < 0.020 |
| FB-09 | FB-09-5.0 | 5.0 | 7/31/2020 | 0.031 | 0.031 | 0.049 | 0.11 | 0.068 | < 0.0079 | 0.017 | < 0.0079 | 0.039 | 0.081 | 0.19 | 0.030 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0079 | 0.0079 | < 0.0079 | < 0.0079 | 0.0060 |
| FB-16 | FB-16-1.0 | 1.0 | 9/30/2020 | < 0.0079 | < 0.0079 | < 0.0079 | < 0.0237 | < 0.0079 | < 0.0079 | 0.0088 | 0.038 | 0.083 | < 0.0079 | 0.041 | 0.078 | 0.052 | 0.040 | 0.073 | 0.017 | 0.051 | < 0.0079 | 0.042 | 0.059 |
| FB-17 | FB-17-1.0 | 1.0 | 9/30/2020 | 0.094 | < 0.0081 | < 0.0081 | 0.094 | < 0.0081 | 0.0087 | 0.023 | 0.052 | 0.13 | < 0.0081 | 0.024 | 0.12 | 0.091 | 0.093 | 0.13 | 0.030 | 0.079 | 0.010 | 0.058 | 0.13 |
| | FB-17-5.0 | 5.0 | 9/30/2020 | 0.21 | 0.12 | 0.14 | 0.47 | 0.26 | 0.0083 | 0.22 | 0.13 | 0.81 | 0.32 | 0.96 | 0.76 | 0.26 | 0.28 | 0.28 | 0.073 | 0.29 | 0.029 | 0.14 | 0.36 |
| | FB-17-9.0 | 9.0 | 9/30/2020 | < 0.030 | < 0.030 | < 0.030 | < 0.090 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.030 | < 0.023 |
| FB-18 | FB-18-5.0 | 5.0 | 9/30/2020 | 0.013 | 0.0096 | 0.011 | 0.0336 | 0.0077 | < 0.0076 | < 0.0076 | 0.0082 | 0.031 | < 0.0076 | 0.023 | 0.035 | 0.018 | 0.020 | 0.020 | < 0.0076 | 0.021 | < 0.0076 | 0.0095 | 0.024 |
| | FB-18-8.0 | 8.0 | | | | | | | | | | | | | | | | | | | | | |

Table 4
Soil Analytical Results for PAHs
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) ² | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|----------------------------------|-------------|---|---------------------|---------------------|---------------------------------|--------------------|----------------|---------------------|----------------------|--------------------|--------------------|--------------|--------------------|-------------------|--------------------|----------------------|------------------------|----------|------------------------|------------------------|--------------------------------|-----|
| | | | | Non-Carcinogenic PAHs | | | | | | | | | | | | Carcinogenic PAHs | | | | | | | | |
| | | | | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Total Naphthalenes ³ | Acenaphthene | Acenaphthylene | Anthracene | Benzo(g,h,i)Perylene | Fluoranthene | Fluorene | Phenanthrene | Pyrene | Benzo(a)Pyrene | Benzo(a)Anthracene | Benzo(b)Fluoranthene | Benzo(j,k)Fluoranthene | Chrysene | Dibenzo(a,h)Anthracene | Indeno(1,2,3-cd)Pyrene | Total cPAHs TEC ^{4,5} | |
| FB-21 | FB-21-1.0 | 1.0 | 9/30/2020 | 0.084 | < 0.038 | < 0.038 | 0.084 | < 0.038 | < 0.038 | 0.046 | 0.063 | 0.18 | < 0.038 | 0.13 | 0.16 | 0.094 | 0.076 | 0.12 | < 0.038 | 0.11 | < 0.038 | 0.052 | 0.12 | |
| | FB-21-5.0 | 5.0 | 9/30/2020 | 0.027 | 0.0087 | 0.011 | 0.0467 | 0.016 | < 0.0076 | 0.031 | 0.053 | 0.17 | 0.016 | 0.13 | 0.18 | 0.079 | 0.073 | 0.078 | 0.029 | 0.075 | 0.0096 | 0.047 | 0.10 | |
| FB-22 | FB-22-1.0 | 1.0 | 9/30/2020 | 0.023 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | 0.0076 | < 0.0074 | < 0.0074 | 0.0077 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0056 | |
| FB-23 | FB-23-1.0 | 1.0 | 10/1/2020 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0231 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0077 | < 0.0058 | |
| FB-24 | FB-24-3.0 | 3.0 | 10/1/2020 | 0.16 | 0.078 | 0.12 | 0.358 | 0.13 | < 0.038 | 0.12 | 0.088 | 0.40 | 0.26 | 0.78 | 0.37 | 0.14 | 0.14 | 0.15 | 0.048 | 0.14 | < 0.038 | 0.075 | 0.18 | |
| | FB-24-6.0 | 6.0 | 10/1/2020 | 0.017 | < 0.015 | < 0.015 | 0.017 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.015 | < 0.011 | |
| FB-25 | FB-25-1.0 | 1.0 | 10/1/2020 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0219 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0073 | 0.0086 | < 0.0073 | < 0.0073 | 0.0084 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0073 | < 0.0055 | |
| | FB-25-3.0 | 3.0 | 10/1/2020 | 0.24 | 0.041 | 0.052 | 0.333 | 0.050 | < 0.0075 | 0.037 | 0.031 | 0.20 | 0.047 | 0.21 | 0.17 | 0.053 | 0.069 | 0.059 | 0.023 | 0.069 | < 0.0075 | 0.028 | 0.072 | |
| | FB-25-7.5 | 7.5 | 10/1/2020 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.027 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0090 | < 0.0068 | |
| FB-27 | FB-27-1.0 | 1.0 | 10/1/2020 | < 0.0071 | < 0.0071 | < 0.0071 | < 0.0213 | < 0.0071 | < 0.0071 | 0.0086 | 0.011 | 0.043 | < 0.0071 | 0.042 | 0.038 | 0.016 | 0.017 | 0.019 | 0.0080 | 0.017 | < 0.0071 | 0.010 | 0.022 | |
| | FB-27-5.0 | 5.0 | 10/1/2020 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0222 | 0.010 | < 0.0074 | 0.021 | 0.012 | 0.079 | < 0.0074 | 0.064 | 0.083 | 0.026 | 0.033 | 0.028 | 0.012 | 0.036 | < 0.0074 | 0.013 | 0.035 | |
| FB-29 | FB-29-14.0 | 14.0 | 1/8/2021 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0222 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0074 | < 0.0056 | |
| FMW-02 | FMW-02-3.0 | 3.0 | 7/30/2020 | 1.1 | 0.36 | 0.54 | 2.0 | 0.70 | 0.012 | 0.28 | 0.11 | 0.94 | 1.1 | 2.1 | 0.78 | 0.20 | 0.26 | 0.23 | 0.081 | 0.25 | 0.025 | 0.11 | 0.27 | |
| | FMW-02-6.0 | 6.0 | 7/30/2020 | 2.5 | 1.2 | 1.7 | 5.4 | 3.3 | 0.055 | 1.7 | 0.64 | 5.5 | 4.9 | 13 | 4.2 | 1.2 | 1.5 | 1.3 | 0.48 | 1.5 | 0.15 | 0.63 | 1.6 | |
| | FMW-02-14.0 | 14.0 | 7/30/2020 | 0.86 H | 0.44 H | 0.56 H | 1.86 H | 1.2 H | 0.031 H | 0.53 H | 0.16 H | 2.6 H | 1.5 H | 4.6 H | 2.1 H | 0.30 H | 0.57 H | 0.38 H | 0.11 H | 0.48 H | 0.036 H | 0.19 H | 0.43 | |
| FMW-03 | FMW-03-5.0 | 5.0 | 7/31/2020 | < 0.027 | < 0.027 | < 0.027 | < 0.081 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.027 | < 0.020 | |
| FMW-04 | FMW-04-6.0 | 6.0 | 7/31/2020 | 0.051 | 0.059 | 0.092 | 0.20 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | 0.013 | 0.023 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0089 | < 0.0067 | |
| FMW-05 | FMW-05-1.0 | 1.0 | 10/1/2020 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0243 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0081 | < 0.0061 | |
| | FMW-05-6.0 | 6.0 | 10/1/2020 | 0.029 | < 0.011 | < 0.011 | 0.029 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | 0.018 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.0083 | |
| FMW-06 | FMW-06-1.0 | 1.0 | 10/1/2020 | < 0.015 | < 0.015 | < 0.015 | < 0.045 | < 0.015 | 0.017 | 0.026 | 0.039 | 0.030 | < 0.015 | < 0.015 | 0.029 | 0.043 | 0.034 | 0.064 | 0.017 | 0.075 | < 0.015 | 0.044 | 0.06 | |
| | FMW-06-5.0 | 5.0 | 10/1/2020 | < 0.022 | < 0.022 | < 0.022 | < 0.066 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.022 | < 0.017 | |
| FMW-07 | FMW-07-1.0 | 1.0 | 10/1/2020 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0225 | < 0.0075 | < 0.0075 | < 0.0075 | < 0.0075 | 0.021 | < 0.0075 | 0.019 | 0.021 | 0.011 | 0.012 | 0.015 | < 0.0075 | 0.012 | < 0.0075 | < 0.0075 | 0.015 | |
| | FMW-07-5.0 | 5.0 | 10/1/2020 | < 0.031 | < 0.031 | < 0.031 | < 0.093 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.031 | < 0.023 | |
| Upland Sample Locations | | | | | | | | | | | | | | | | | | | | | | | | |
| FB-10 | FB-10-3.0 | 3.0 | 9/30/2020 | 0.048 | 0.011 | 0.020 | 0.079 | 0.033 | < 0.0083 | 0.016 | < 0.0083 | 0.012 | 0.024 | 0.045 | 0.0083 | < 0.0083 | < 0.0083 | < 0.0083 | < 0.0083 | < 0.0083 | < 0.0083 | < 0.0083 | < 0.0063 | |
| FB-11 | FB-11-5.0 | 5.0 | 9/30/2020 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.024 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0060 | |
| FB-12 | FB-12-5.0 | 5.0 | 9/30/2020 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.024 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0080 | < 0.0060 | |
| FB-13 | FB-13-1.0 | 1.0 | 9/30/2020 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0246 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0082 | 0.031 | < 0.0082 | < 0.0082 | 0.010 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0082 | < 0.0062 | |
| FB-14 | FB-14-1.0 | 1.0 | 9/30/2020 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0234 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0078 | < 0.0059 | |
| MTCA Method A Cleanup Level for Soil ⁶ | | | | | | | 5 | 4,800 ⁷ | NE | 24,000 ⁷ | NE | 3,200 ⁷ | 3,200 ⁷ | NE | 2,400 ⁷ | | | | | | | | | 0.1 |

NOTES:

Results in **bold** and highlighted **yellow** denote concentrations exceeding MTCA cleanup levels.

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

— denotes sample not analyzed.

¹Depth in feet below ground surface.

²Analyzed by U.S. Environmental Protection Agency Method 8270E/SIM.

³Sum of naphthalene, 1-methylnaphthalene and 2-methylnaphthalene.

⁴Total carcinogenic polycyclic aromatic hydrocarbons derived using the total toxicity equivalency method in Section 708(8) of Chapter 173-340 of the Washington Administrative Code.

⁵For concentrations reported at less than the laboratory reporting limit, half the reporting limit was used to calculate the TEC.

⁶Washington 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.

⁷Washington 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://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC>

cPAHs = carcinogenic polycyclic aromatic hydrocarbons

H = sample analyzed outside of holding time

NE = not established

PAHs = polycyclic aromatic hydrocarbons

TEC = toxic equivalent concentration

U1 = The reporting limit is elevated due to interferences present in the sample.

Table 5
Soil Analytical Results for Metals
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) ² | | |
|---|-----------------------|----------------------------------|-------------|---|----------|------------------------|
| | | | | Arsenic | Mercury | Selenium |
| BK01 | BK01SB01 | 2.0-3.5 | 10/23/2019 | 11.5 J+ | 0.029 J | < 3.0 |
| | BK01SB02 | 4.5-6.0 | 10/23/2019 | 1.9 J+ | 0.019 J | < 2.4 |
| | BK01SB03 | 8.0-10 | 10/23/2019 | 5.7 J+ | 0.031 J | < 2.7 |
| BH01 | BH01SB01 | 1.5-3.0 | 10/23/2019 | 5.5 J+ | 0.046 J | < 2.9 |
| | BH01SB02 | 4.5-6.0 | 10/23/2019 | 5.6 J+ | 0.045 J | < 3.2 |
| | BH01SB03 | 8.0-10.0 | 10/23/2019 | 5.4 J+ | < 0.14 | < 3.3 |
| BH02 | BH02SB01 | 0.5-2.0 | 10/23/2019 | 6.7 J+ | 0.042 J | < 2.6 |
| | BH02SB02 | 4.0-5.0 | 10/23/2019 | 4.9 J+ | 0.075 J | < 4.4 |
| | BH02SB03 | 8.0-10.0 | 10/23/2019 | 47.1 J+ | 0.07 J | 3.2 |
| BH03 | BH03SB01 | 1.5-3.0 | 10/23/2019 | 4.8 J+ | 0.036 J | < 2.7 |
| | BH03SB02 | 4.5-6.0 | 10/23/2019 | 4.0 J+ | 0.120 J | < 4 |
| BH04 | BH04SB01 | 0.5-1.0 | 11/6/2019 | 3.2 | 0.028 J | 0.2 J |
| | BH04SB02 | 2.0-2.5 | 11/6/2019 | 5.3 | 0.034 J | 0.4 J |
| BH05 | BH05SB01 | 1.5-2.0 | 11/6/2019 | 3.4 | 0.15 | < 2.8 |
| | BH05SB02 | 1.5-2.0 | 11/6/2019 | 3.9 | 0.094 J | 0.2 J |
| BH06 | BH06SB01 | 1.0-1.8 | 11/6/2019 | 3.4 | 0.045 J | < 2.8 |
| | BH06SB02 | 2.5-3.0 | 11/6/2019 | 5.2 | 0.037 J | 0.2 J |
| FB-01 | FB-01-7.0 | 7.0 | 7/30/2020 | < 12 | --- | --- |
| FB-04 | FB-04-1.0 | 1.0 | 7/30/2020 | < 12 | --- | --- |
| FB-05 | FB-05-3.0 | 3.0 | 7/30/2020 | < 11 | --- | --- |
| | FB-05-11.0 | 11.0 | 7/30/2020 | < 18 | --- | --- |
| FB-07 | FB-07-1.0 | 1.0 | 7/31/2020 | < 11 | --- | --- |
| FB-26 | FB-26-5.0 | 5.0 | 10/1/2020 | < 11 | --- | --- |
| FB-28 | FB-28-1.5 | 1.5 | 12/11/2020 | --- | < 0.31 | --- |
| FMW-02 | FMW-02-3.0 | 3.0 | 7/30/2020 | < 11 | --- | --- |
| MTCA Cleanup Levels for Soil³ | | | | 20 | 2 | 400⁴ |

Table 5
Soil Analytical Results for Metals
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Identification | Sample Depth (feet) ¹ | Sample Date | Analytical Results (milligrams per kilogram) ² | | |
|---|-----------------------|----------------------------------|-------------|--|----------|------------------------|
| | | | | Arsenic | Mercury | Selenium |
| FMW-03 | FMW-03-5.0 | 5.0 | 7/31/2020 | < 21 | --- | --- |
| | FMW-03-10.0 | 10.0 | 7/31/2020 | 23 | --- | --- |
| | FMW-03-20.0 | 20.0 | 7/31/2020 | < 13 | --- | --- |
| FMW-04 | FMW-04-12.0 | 12.0 | 7/31/2020 | < 16 | --- | --- |
| FMW-05 | FMW-05-1.0 | 1.0 | 10/1/2020 | < 12 | --- | --- |
| FMW-06 | FMW-06-5.0 | 5.0 | 10/1/2020 | < 16 | --- | --- |
| FMW-07 | FMW-07-1.0 | 1.0 | 10/1/2020 | < 11 | --- | --- |
| Upland Sample Locations | | | | | | |
| FB-10 | FB-10-1.0 | 1.0 | 9/30/2020 | < 12 | --- | --- |
| FB-12 | FB-12-1.0 | 1.0 | 9/30/2020 | < 12 | --- | --- |
| FB-13 | FB-13-3.0 | 3.0 | 9/30/2020 | < 11 | --- | --- |
| MTCA Cleanup Levels for Soil³ | | | | 20 | 2 | 400⁴ |

NOTES:

Results in **bold** denote concentrations exceeding MTCA 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 U.S. Environmental Protection Agency Methods 6010D/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 revised 2013.

⁴Washington State Cleanup Levels and Risk Calculations under the Washington State MTCA, Standard Method B Formula Values for Soil from CLARC Master spreadsheet, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC>

J = result is an estimate

J+ = result is an estimate with a high bias

Table 6
Groundwater Analytical Results for Total Petroleum Hydrocarbons and BTEX
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Type | Sampled By | Sample Date | Sample Identification | Analytical Results (micrograms per liter) | | | | | | | |
|--|-------------|------------|-------------|-----------------------|---|-------|--|-------|------------------------|---------|--------------|---------|
| | | | | | NWTPH-Dx ¹ | | NWTPH-Dx Silica Gel Cleanup ¹ | | EPA 8260D ² | | | |
| | | | | | DRO | ORO | DRO | ORO | Benzene | Toluene | Ethylbenzene | Xylenes |
| Reconnaissance Boring Groundwater Samples | | | | | | | | | | | | |
| BH01 | Split | Farallon | 10/23/2019 | BH01-GW-102319 | < 290 | < 470 | < 290 | < 470 | --- | --- | --- | --- |
| | | E&E | 10/23/2019 | BH01GW | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| BH02 | Split | Farallon | 10/23/2019 | BH02-GW-102319 | < 280 | < 460 | < 280 | < 460 | --- | --- | --- | --- |
| | | E&E | 10/23/2019 | BH02GW | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| BKGRSB01 | Split | Farallon | 10/23/2019 | BKGRSB01-GW-102319 | < 290 | < 470 | < 290 | < 470 | --- | --- | --- | --- |
| | | E&E | 10/23/2019 | BK01GW | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| Monitoring Well Groundwater Samples | | | | | | | | | | | | |
| MW-01 | Normal | E&E | 10/22/2019 | MW01GW | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| MW-02 | Normal | E&E | 10/22/2019 | MW02GW | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| MW-355 | Normal | E&E | 10/22/2019 | MW355 | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| MW-356 | Normal | E&E | 10/22/2019 | MW356 | < 190 | < 480 | --- | --- | < 0.50 | < 0.50 | < 0.50 | < 1.0 |
| FMW-01 | Normal | Farallon | 8/6/2020 | FMW-01-080620 | --- | --- | < 230 | < 230 | --- | --- | --- | --- |
| | Normal | Farallon | 12/11/2020 | FMW-01-121120 | < 210 | < 210 | < 210 | < 210 | --- | --- | --- | --- |
| FMW-02 | Normal | Farallon | 8/6/2020 | FMW-02-080620 | --- | --- | < 230 | < 230 | --- | --- | --- | --- |
| | Normal | Farallon | 12/11/2020 | FMW-02-121120 | < 210 | < 210 | < 210 | < 210 | --- | --- | --- | --- |
| FMW-03 | Normal | Farallon | 8/6/2020 | FMW-03-080620 | --- | --- | < 220 | < 220 | --- | --- | --- | --- |
| | Normal | Farallon | 12/11/2020 | FMW-03-121120 | < 220 | < 220 | < 220 | < 220 | --- | --- | --- | --- |
| FMW-04 | Normal | Farallon | 8/6/2020 | FMW-04-080620 | --- | --- | < 220 | < 220 | < 0.20 | < 1.0 | < 0.20 | 0.91 |
| | Normal | Farallon | 12/11/2020 | FMW-04-121120 | < 210 | < 210 | < 210 | < 210 | --- | --- | --- | --- |
| FMW-05 | Normal | Farallon | 12/11/2020 | FMW-05-121120 | < 210 | < 210 | < 210 | < 210 | --- | --- | --- | --- |
| FMW-06 | Normal | Farallon | 12/11/2020 | FMW-06-121120 | < 210 | 340 | < 210 | < 210 | --- | --- | --- | --- |
| FMW-07 | Normal | Farallon | 12/11/2020 | FMW-07-121120 | 240 | 290 | < 210 | < 210 | --- | --- | --- | --- |
| MTCA Method A Cleanup Level for Groundwater ³ | | | | | 500 | 500 | 500 | 500 | 5 | 1,000 | 700 | 1,000 |

NOTES:

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

— denotes sample not analyzed.

¹ Analyzed by Northwest Method NWTPH-Dx treated without and with a silica gel cleanup process.

² Analyzed by U.S. Environmental Protection Agency (EPA) Method 8260D.

³ Washington 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 amended 2013.

BTEX = benzene, toluene, ethylbenzene, and xylenes

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

E&E = Ecology and Environment, Inc.

Farallon = Farallon Consulting, L.L.C.

NE = not established

ORO = TPH as oil-range organics

Table 7
Groundwater Analytical Results for Select VOCs
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Date | Sample Identification | Analytical Results (micrograms per liter) ¹ | | | | | |
|--|-------------|-----------------------|--|--------|------------------------|--------------------------|----------------|--------------------|
| | | | PCE | TCE | cis-1,2-Dichloroethene | trans-1,2-Dichloroethene | Vinyl Chloride | Methylene Chloride |
| Monitoring Well Groundwater Samples | | | | | | | | |
| FMW-04 | 8/6/2020 | FMW-04-080620 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 0.20 | < 1.0 |
| MTCA Cleanup Levels for Groundwater ² | | | 5 | 5 | 16 ³ | 160 ³ | 0.2 | 5 |

NOTES:

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

¹Analyzed by U.S. Environmental Protection Agency Method 8260D. Only select analytes shown in table; see lab report for full list of other non-detected analytes.

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://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC>

PCE = tetrachloroethene

TCE = trichloroethene

VOC = volatile organic compound

Table 8
Groundwater Analytical Results for PAHs
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Date | Sample Identification | Analytical Results (micrograms per liter) ¹ | | | | | | | | | | | | | | | | | | | |
|--|-------------|-----------------------|--|---------------------|---------------------|---------------------------------|--------------|------------------|------------|----------------------|--------------|------------------|------------------|---------|-------------------|--------------------|----------------------|------------------------|----------|------------------------|------------------------|--------------------------------|
| | | | Non-Carcinogenic PAHs | | | | | | | | | | | | Carcinogenic PAHs | | | | | | | |
| | | | Naphthalene | 1-Methylnaphthalene | 2-Methylnaphthalene | Total Naphthalenes ² | Acenaphthene | Acenaphthylene | Anthracene | Benzo(g,h,i)Perylene | Fluoranthene | Fluorene | Phenanthrene | Pyrene | Benzo(a)Pyrene | Benzo(a)Anthracene | Benzo(b)Fluoranthene | Benzo(j,k)Fluoranthene | Chrysene | Dibenzo(a,h)Anthracene | Indeno(1,2,3-cd)Pyrene | Total cPAHs TEC ^{3,4} |
| BK01 | 10/23/2019 | BK01GW | < 0.11 | --- | < 0.11 | <0.22 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.083 |
| BH01 | 10/23/2019 | BH01GW | < 0.11 | --- | < 0.11 | <0.22 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | 0.020 J | < 0.11 | 0.030 JQ | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.083 |
| BH02 | 10/23/2019 | BH02GW | <0.10 | --- | <0.10 | <0.20 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | <0.10 | < 0.076 |
| Monitoring Well Groundwater Samples | | | | | | | | | | | | | | | | | | | | | | |
| FMW-01 | 8/6/2020 | FMW-01-080620 | < 0.11 | < 0.11 | < 0.11 | < 0.33 | < 0.11 | < 0.11 | < 0.11 | < 0.011 | < 0.11 | < 0.11 | < 0.11 | < 0.11 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.0083 |
| FMW-02 | 8/6/2020 | FMW-02-080620 | 5.4 | 1.3 | 1.7 | 8.4 | 2.4 | < 0.10 | 0.17 | < 0.010 | 0.19 | 2.1 | 2.0 | 0.15 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.0076 |
| FMW-03 | 8/6/2020 | FMW-03-080620 | < 0.11 | < 0.11 | < 0.11 | < 0.33 | < 0.11 | < 0.11 | < 0.11 | < 0.011 | < 0.11 | < 0.17 | < 0.11 | < 0.11 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.011 | < 0.0083 |
| FMW-04 | 8/6/2020 | FMW-04-080620 | < 0.10 | < 0.10 | < 0.10 | < 0.30 | < 0.10 | < 0.10 | < 0.10 | < 0.010 | < 0.10 | < 0.10 | < 0.10 | < 0.10 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.010 | < 0.0076 |
| FMW-05 | 10/9/2020 | FMW-05-100920 | < 0.096 | < 0.096 | < 0.096 | < 0.029 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0073 |
| FMW-06 | 10/9/2020 | FMW-06-100920 | < 0.12 | < 0.12 | < 0.12 | < 0.036 | < 0.12 | < 0.12 | < 0.12 | < 0.12 | < 0.12 | < 0.12 | < 0.12 | < 0.12 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.012 | < 0.0091 |
| FMW-07 | 10/9/2020 | FMW-07-100920 | < 0.096 | < 0.096 | < 0.096 | < 0.029 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0096 | < 0.0073 |
| FMW-08 | 1/18/2021 | FMW-08-011821 | < 0.097 | < 0.097 | < 0.097 | < 0.291 | < 0.097 | < 0.097 | < 0.097 | < 0.0097 | < 0.097 | < 0.097 | < 0.097 | < 0.097 | < 0.0097 | < 0.0097 | < 0.0097 | < 0.0097 | < 0.0097 | < 0.0097 | < 0.0097 | < 0.0073 |
| MTCA Method A Cleanup Level for Groundwater ⁵ | | | | | | | 160 | 960 ⁶ | NE | 4,800 ⁶ | NE | 640 ⁶ | 640 ⁶ | NE | 480 ⁶ | | | | | | | 0.1 |

NOTES:

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

¹Analyzed by U.S. Environmental Protection Agency Method 8270D/SIM, 8270E/SIM.

²Sum of naphthalene, 1-methylnaphthalene and 2-methylnaphthalene.

³Total carcinogenic polycyclic aromatic hydrocarbons derived using the total toxicity equivalency method in Section 708(8) of Chapter 173-340 of the Washington Administrative Code.

⁴For concentrations reported at less than the laboratory reporting limit, half the reporting limit was used to calculate the TEC.

⁵Washington 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 revised 2013, unless otherwise noted.

⁶Washington State Model Toxics Control Act Cleanup Regulation Cleanup Levels and Risk Calculations, Standard Method B Values for Groundwater, updated May 2019, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC>

cPAHs = carcinogenic polycyclic aromatic hydrocarbons
NE = not established
PAHs = polycyclic aromatic hydrocarbons
TEC = toxic equivalent concentration

Table 9
Groundwater Analytical Results for Metals
Thompson Field
King County Parcel No. 0825069104
Redmond, Washington
Farallon PN: 650-031

| Sample Location | Sample Date | Sample Identification | Analytical Results (micrograms per liter) ¹ | | | | | | | |
|--|-------------|-----------------------|--|--------------------|----------------------|-------------------|---------------------------|----------------|------------------------|---------------------|
| | | | Total Aluminum | Dissolved Aluminum | Total Arsenic | Dissolved Arsenic | Total Iron | Dissolved Iron | Total Manganese | Dissolved Manganese |
| BK01 | 10/23/2019 | BK01GW | 429 | --- | 0.46 J | --- | 377 J+ | --- | 18.4 J+ | --- |
| | 10/23/2019 | BK01GW-D | < 200 | --- | --- | 0.46 J | --- | < 100 | --- | < 15.0 |
| BH01 | 10/23/2019 | BH01GW | 1,520 | --- | 1.1 | --- | 5,170 J+ | --- | 218 J+ | --- |
| | 10/23/2019 | BH01GW-D | 24.4 J | --- | --- | 0.71 J | --- | 4,330 | --- | 226 |
| BH02 | 10/23/2019 | BH02GW | 618 | --- | 3.2 | --- | 910 J+ | --- | 140 J+ | --- |
| | 10/23/2019 | BH02GW-D | < 200 | --- | --- | 2.5 | --- | 241 | --- | 134 |
| FMW-01 | 8/6/2020 | FMW-01-080620 | --- | --- | < 3.3 | --- | --- | --- | --- | --- |
| FMW-02 | 8/6/2020 | FMW-02-080620 | --- | --- | < 3.3 | --- | --- | --- | --- | --- |
| | 12/11/2020 | FMW-02-121120 | 2,200 | < 110 | --- | --- | 8,900 | 7,100 | 570 | 530 |
| FMW-03 | 8/6/2020 | FMW-03-080620 | --- | --- | 5.7 | 4.7 | --- | --- | --- | --- |
| | 12/11/2020 | FMW-03-121120 | < 110 | < 110 | < 3.3 | < 3.0 | 1,800 | 1,500 | 500 | 480 |
| FMW-04 | 8/6/2020 | FMW-04-080620 | --- | --- | < 3.3 | --- | --- | --- | --- | --- |
| FMW-05 | 10/9/2020 | FMW-05-100920 | --- | --- | < 3.3 | --- | --- | --- | --- | --- |
| FMW-06 | 10/9/2020 | FMW-06-100920 | --- | --- | 14 | 9.5 | --- | --- | --- | --- |
| | 12/11/2020 | FMW-06-121120 | --- | --- | 3.6 | < 3.0 | --- | --- | --- | --- |
| FMW-07 | 10/9/2020 | FMW-07-100920 | --- | --- | 7.2 | 9.0 | --- | --- | --- | --- |
| | 12/11/2020 | FMW-07-121120 | --- | --- | 5.3 | 4.7 | --- | --- | --- | --- |
| FMW-08 | 2/16/2021 | FMW-08-021621 | --- | --- | --- | --- | 6,800 | 5,700 | 200 | 190 |
| MTCA Cleanup Levels for Groundwater | | | 16,000² | | 5³ | | 11,000² | | 750² | |

NOTES:

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

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

— denotes sample not analyzed.

¹Analyzed by U.S. Environmental Protection Agency Method 200.8/6010D.

²Washington State Model Toxics Control Act Cleanup Regulation Cleanup Levels and Risk Calculations, Standard Method B Values for Groundwater, <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Contamination-clean-up-tools/CLARC>

³Washington 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.

J = result is an estimate

J+ = result is an estimate with a high bias

Table 10
Soil Ecological Screening Levels and Contaminants of Concern
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical | Maximum Concentration (mg/kg-dw) | EF | EF (%) | UCL | Distribution | UCL Method | Screening Level | Ecological Indicator Soil Concentration (EISC) | | | EISC Source | | | Chemical Class |
|-------------------------------------|--|------|--------|-----|--|------------------------------|--------------------|---|------------|----------|----------------------|------------------|------------------|-------------------|
| | | | | | | | | Plants | Soil Biota | Wildlife | | | | |
| | | | | | | | | | | | | | | |
| 2-Butanone (Methyl Ethyl Ketone) | 0.94 | 0/14 | 0.0% | NC | NC | NA | 89.6 | 89.6 | 89.6 | 89.6 | EPA 2003 | EPA 2003 | EPA 2003 | VOC |
| Acetone | 4.5 | 1/18 | 5.6% | 1.6 | Gamma | 95% Gamma Adjusted KM-UCL | 2.5 | 2.5 | 2.5 | 2.5 | EPA 2003 | EPA 2003 | EPA 2003 | VOC |
| Carbon Disulfide | 0.024 | 0/4 | 0.0% | NC | NC | NA | 94.1 | 94.1 | 94.1 | 94.1 | EPA 2003 | EPA 2003 | EPA 2003 | VOC |
| m,p-Xylene | 0.0057 | 0/14 | 0.0% | NC | NC | NA | 10 | 10 | 10 | 10 | EPA 2003 | EPA 2003 | EPA 2003 | VOC |
| Methylene Chloride | 0.023 | 0/18 | 0.0% | NC | NC | NA | 4.05 | 4.05 | 4.05 | 4.05 | EPA 2003 | EPA 2003 | EPA 2003 | VOC |
| Dimethylphthalate | 0.99 | 0/14 | 0.0% | NC | NC | NA | 200 | 734 | 200 | 734 | EPA 2003 | MTCA Table 749-3 | EPA 2003 | SVOC |
| Diesel-Range Organics (DRO+ORO) | 460 | 8/30 | 26.7% | 210 | Normal | 95% KM (t) UCL | 260 | 1,600 | 260 | 6,000 | Ecology 2017 | Ecology 2017 | MTCA Table 749-3 | TPH |
| Naphthalene | 91 | 1/64 | 1.6% | 11 | No discernable distribution (log SD = 2.2) | 97.5% KM Chebyshev UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| 1-Methylnaphthalene | 23 | 1/64 | 1.6% | 4 | No discernable distribution (SD = 2.9) | 99% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| 2-Methylnaphthalene | 39 | 1/64 | 1.6% | 4.5 | lognormal (log SD = 2.5) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| Acenaphthene | 110 | 1/64 | 1.6% | 13 | lognormal (log SD = 2.9) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | MTCA Table 749-3 | assumed fluorene | EPA 2007b | LPAH |
| Acenaphthylene | 3.2 | 0/64 | 0.0% | NC | NC | NA | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| Anthracene | 64 | 1/64 | 1.6% | 7.4 | No discernable distribution (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| Fluorene | 86 | 1/64 | 1.6% | 10 | lognormal (log SD = 2.8) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | MTCA Table 749-3 | EPA 2007b | LPAH |
| Phenanthrene | 250 | 1/64 | 1.6% | 29 | lognormal (log SD = 2.7) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH |
| Benzo(a)Anthracene | 27 | 1/64 | 1.6% | 3.2 | lognormal (log SD = 2.3) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Benzo(a)Pyrene | 17 | 1/64 | 1.6% | 2 | lognormal (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | MTCA Table 749-3 | HPAH |
| Benzo(b)Fluoranthene | 19 | 1/64 | 1.6% | 2.3 | lognormal (log SD = 2.1) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Benzo(j,k)Fluoranthene | 6.1 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007a | Assumed BaP | HPAH |
| Chrysene | 21 | 1/64 | 1.6% | 2.5 | lognormal (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Dibenzo(a,h)Anthracene | 2 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Fluoranthene | 110 | 1/64 | 1.6% | 13 | lognormal (log SD = 2.5) | 97.5% KM (Chebyshev) UCL | 18 | 18 | 18 | 122 | assumed soil biota | EPA 2007b | EPA 2003 | HPAH |

Table 10
Soil Ecological Screening Levels and Contaminants of Concern
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| | Maximum Concentration | | | | | | Screening Level | Ecological Indicator Soil Concentration (EISC) | | | EISC Source | | | Chemical |
|------------------------|--------------------------|------|------|------|------------------------------|-----------------------------|--------------------|---|------------|----------|-----------------------------------|------------------|------------------|----------|
| | | | | | | | | Plants | Soil Biota | Wildlife | | | | |
| Indeno(1,2,3-cd)Pyrene | 7.3 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Pyrene | 84 | 1/64 | 1.6% | 9.8 | lognormal (log SD = 2.4) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Aluminum | 20,700 | 0/14 | 0.0% | NC | NC | NA | 37,200 | 37,200 | 37,200 | 37,200 | Background (Ecology 1994) | | | Metal |
| Arsenic | 47.1 | 2/31 | 6.5% | 13.3 | Undefined (log SD = 0.53) | 95% KM Chebyshev UCL | 20 | 20 | 60 | 132 | Table 740-1 footnote | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Barium | 125 | 0/14 | 0.0% | NC | NC | NA | 330 | 500 | 330 | 2,000 | MTCA Table 749-3 | EPA 2005a | EPA 2005a | Metal |
| Chromium | 48.2 | 0/14 | 0.0% | NC | NC | NA | 48.2 | 48.2 | 48.2 | 67 | Background (Ecology 1994) | | MTCA Table 749-3 | Metal |
| Cobalt | 12.5 | 0/14 | 0.0% | NC | NC | NA | 20 | 20 | 20 | 120 | MTCA Table 749-3 | assumed plant SL | EPA 2005b | Metal |
| Copper | 35.9 | 0/14 | 0.0% | NC | NC | NA | 80 | 100 | 80 | 217 | MTCA Table 749-3 | EPA 2006 | MTCA Table 749-3 | Metal |
| Iron | 20,800 | 0/14 | 0.0% | NC | NC | NA | 42,100 | 42,100 | 42,100 | 42,100 | Background (Ecology 1994) | | | Metal |
| Lead | 41.3 | 0/14 | 0.0% | NC | NC | NA | 118 | 120 | 1,700 | 118 | EPA 2005c | EPA 2005c | MTCA Table 749-3 | Metal |
| Manganese | 350 | 0/14 | 0.0% | NC | NC | NA | 450 | 1,100 | 450 | 4,000 | MTCA Table 749-3 | EPA 2007a | EPA 2007a | Metal |
| Mercury | 0.15 | 1/14 | 1.6% | 0.09 | Gamma | 95% KM Bootstrap t UCL | 0.1 | 0.3 | 0.1 | 5.5 | MTCA Table 749-3 | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Nickel | 50.3 | 0/14 | 0.0% | NC | NC | NA | 70 | 70 | 200 | 980 | Background (Smith et al. 2013) | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Selenium | 3.2 | 1/14 | 7.1% | 1.8 | Undefined (log SD = 0.71) | 95% KM (Chebyshev) UCL | 0.63 | 1 | 70 | 0.63 | MTCA Table 749-3 | MTCA Table 749-3 | EPA 2007d | Metal |
| Vanadium | 75.8 | 0/14 | 0.0% | NC | NC | NA | 178 | 178 | 178 | 178 | Background (Smith et al. 2013) | | | Metal |
| Zinc | 55.1 | 0/14 | 0.0% | NC | NC | NA | 160 | 160 | 200 | 360 | EPA 2007c | MTCA Table 749-3 | MTCA Table 749-3 | Metal |

NOTES:

Chemicals in **bold** and highlighted **yellow** are identified as contaminants of concern (COCs).

background = natural background concentration reported in Ecology (1994) or Smith et al. (2013)

BaP = benzo(a)pyrene

DRO+ORO = sum of total petroleum hydrocarbons as diesel-range organics and as oil-range organics

EF = exceedance frequency (number of exceedances/number of samples)

EPA = U.S. Environmental Protection Agency

HPAH = high molecular weight polycyclic aromatic hydrocarbons (PAHs) including all PAHs with four or more benzene rings

KM = Kaplan Meier

LPAH = Low molecular weight PAHs including all PAHs with three or fewer benzene rings

log SD = standard deviation in log scale

mg/kg dw = milligrams per kilogram dry weight

MTCA = Washington State Model Toxics Control Act Cleanup Regulation (MTCA)

NA = not applicable

NC = not calculated

SL = screening level (lowest EISC)

TPH = total petroleum hydrocarbons

UCL = 95% upper confidence limit on the mean

VOC = volatile organic compound

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P:\650 Nelson Properties\650031 Gunshy Farm\Deliverables\2021 RI Rpt\Tables\2021-03 RI_Tables

APPENDIX A
AERIAL PHOTOGRAPHS

REMEDIAL INVESTIGATION REPORT
Thompson Field Site
Portion of King County Parcel No. 0825069104
Redmond, WA

Farallon PN: 650-031



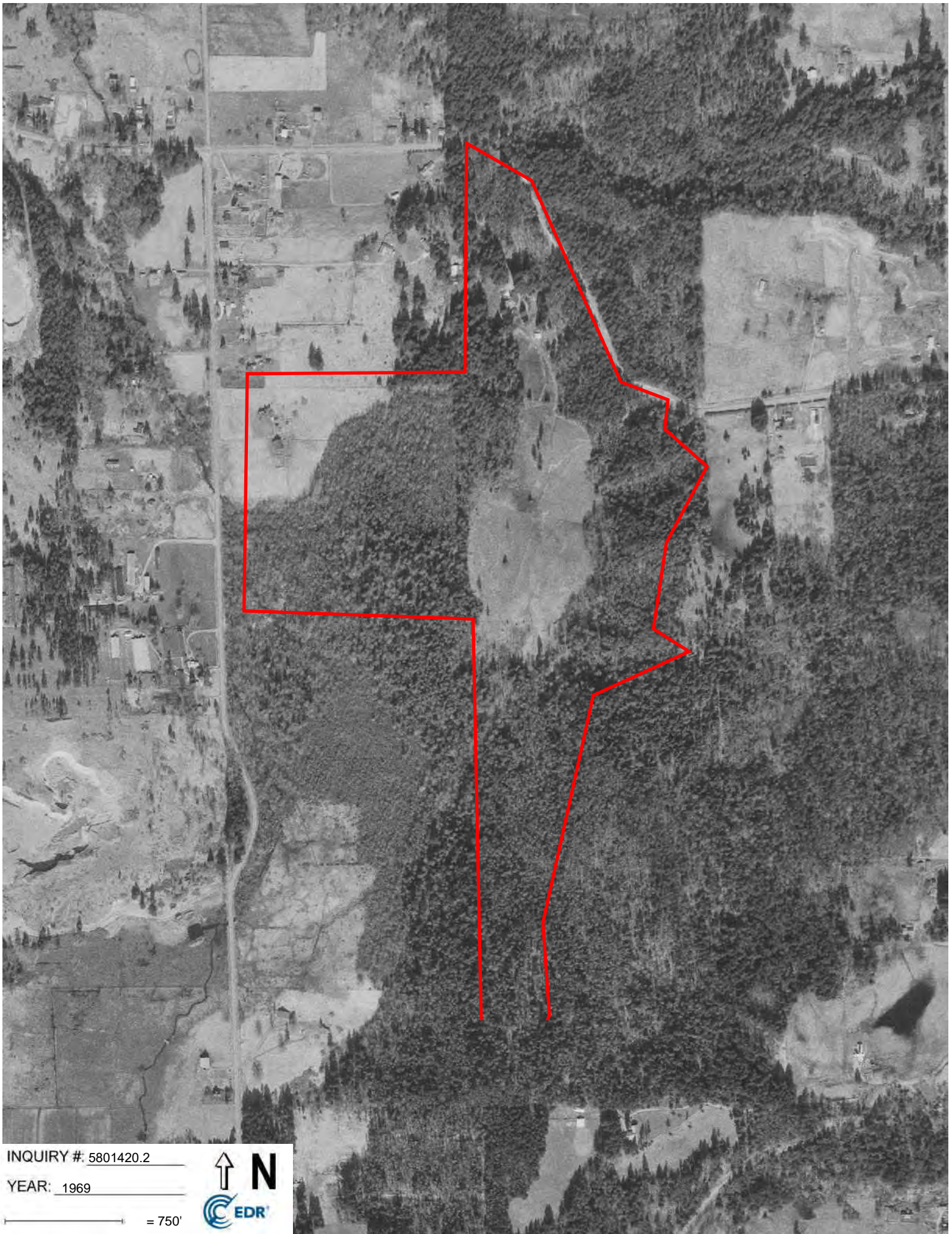
INQUIRY #. 5801420.2

YEAR: 1965



= 750'

Subject boundary not shown because it exceeds image extent or image is not georeferenced.

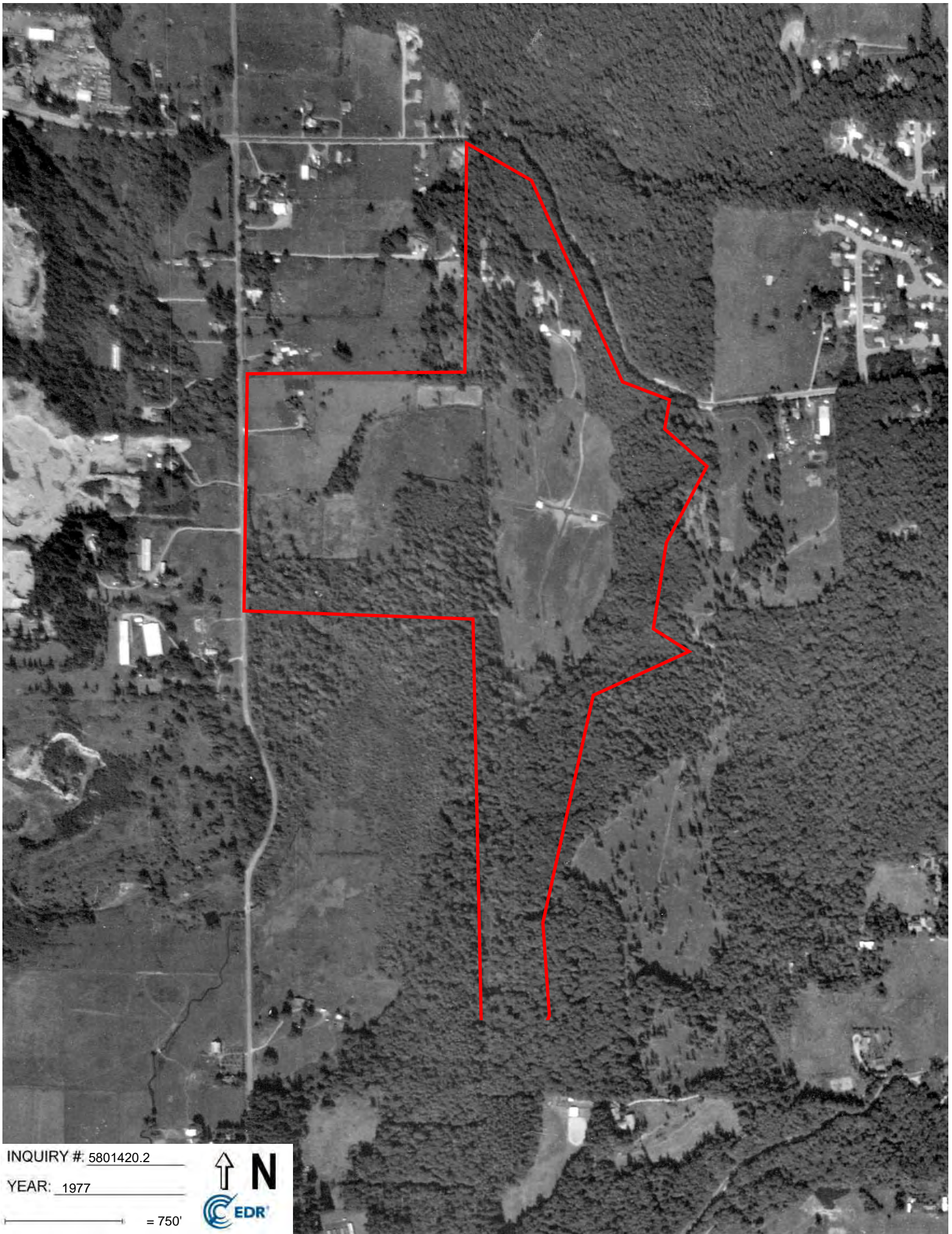


INQUIRY #: 5801420.2

YEAR: 1969

— = 750'



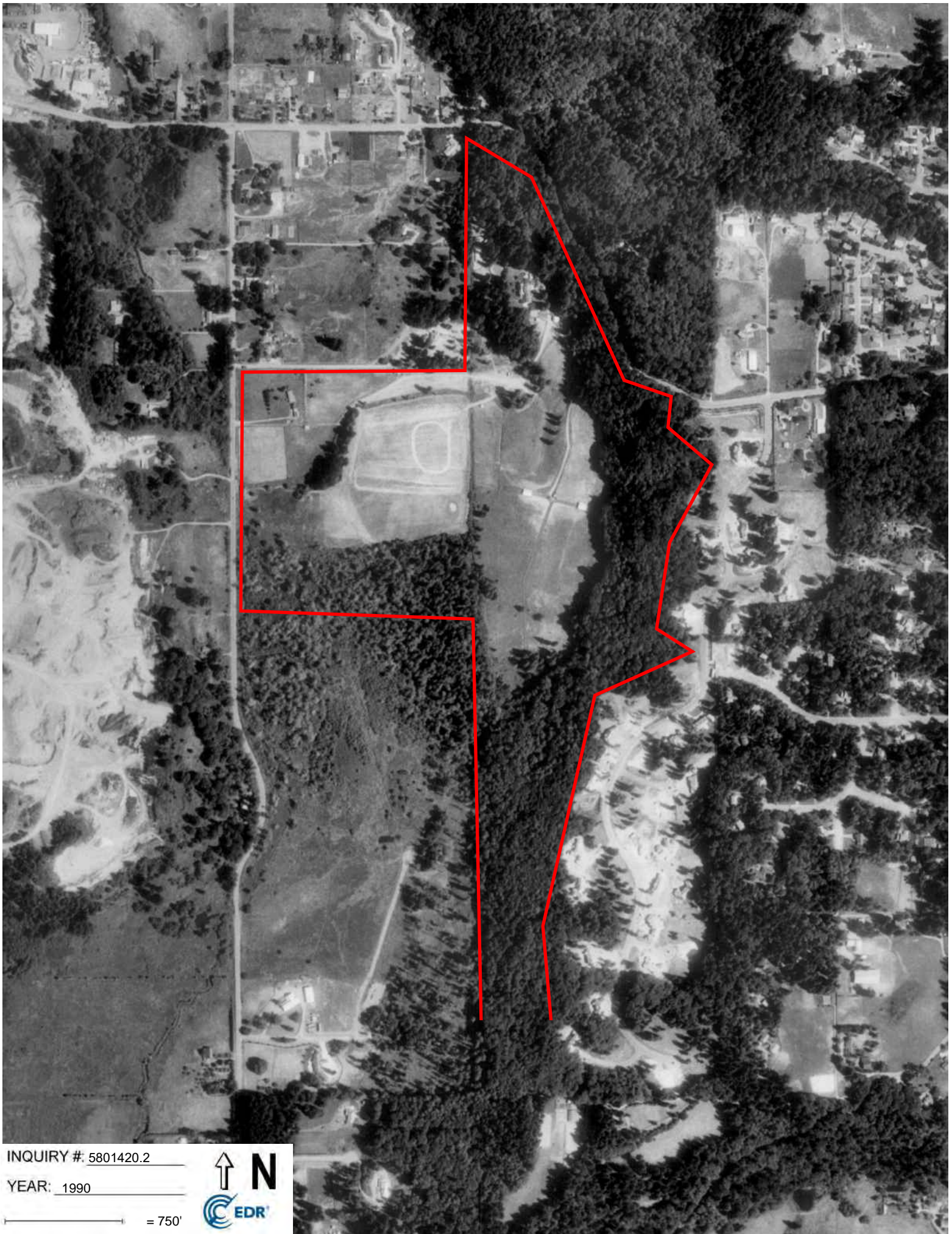


INQUIRY #. 5801420.2

YEAR: 1977

— = 750'



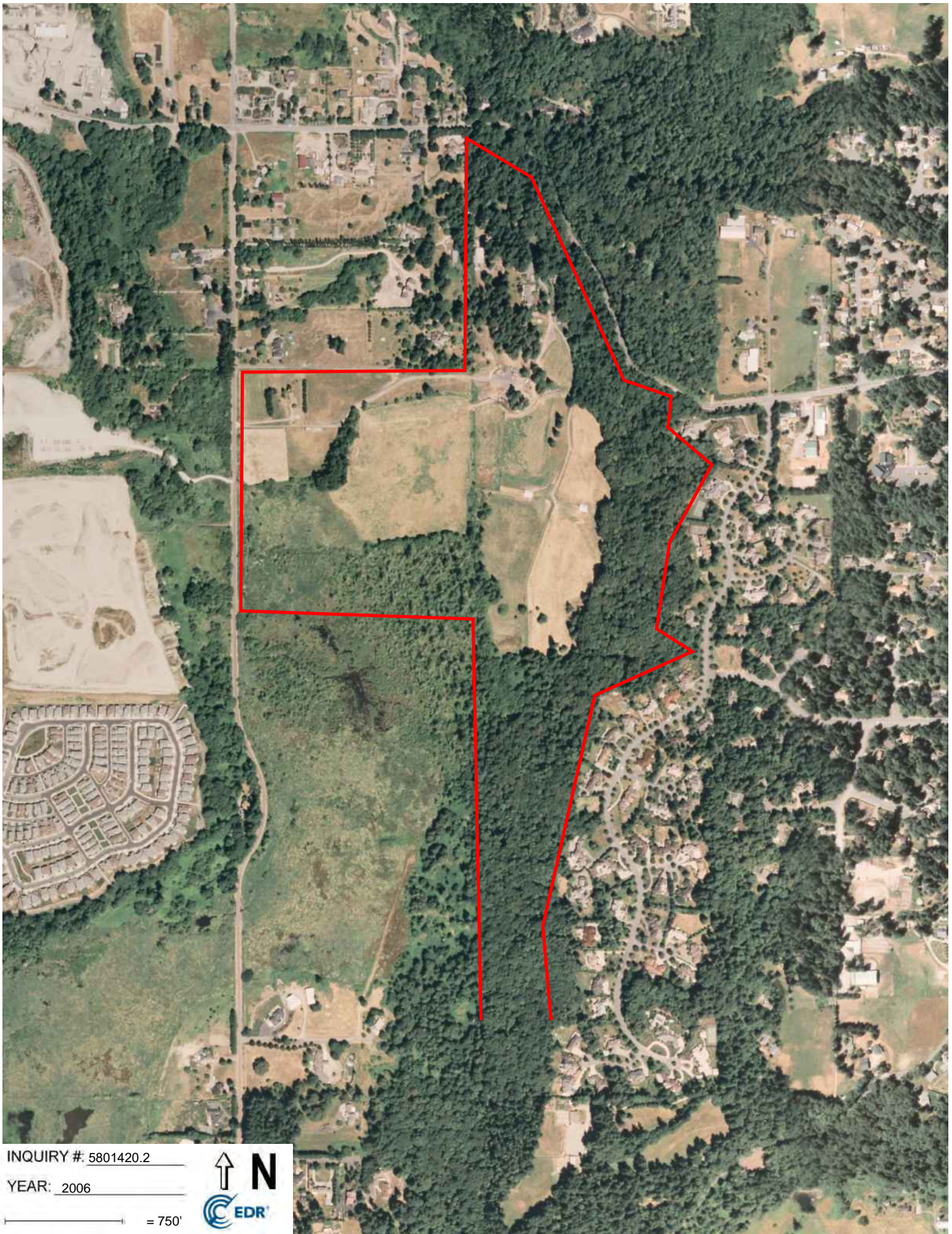


INQUIRY #. 5801420.2

YEAR: 1990

— = 750'



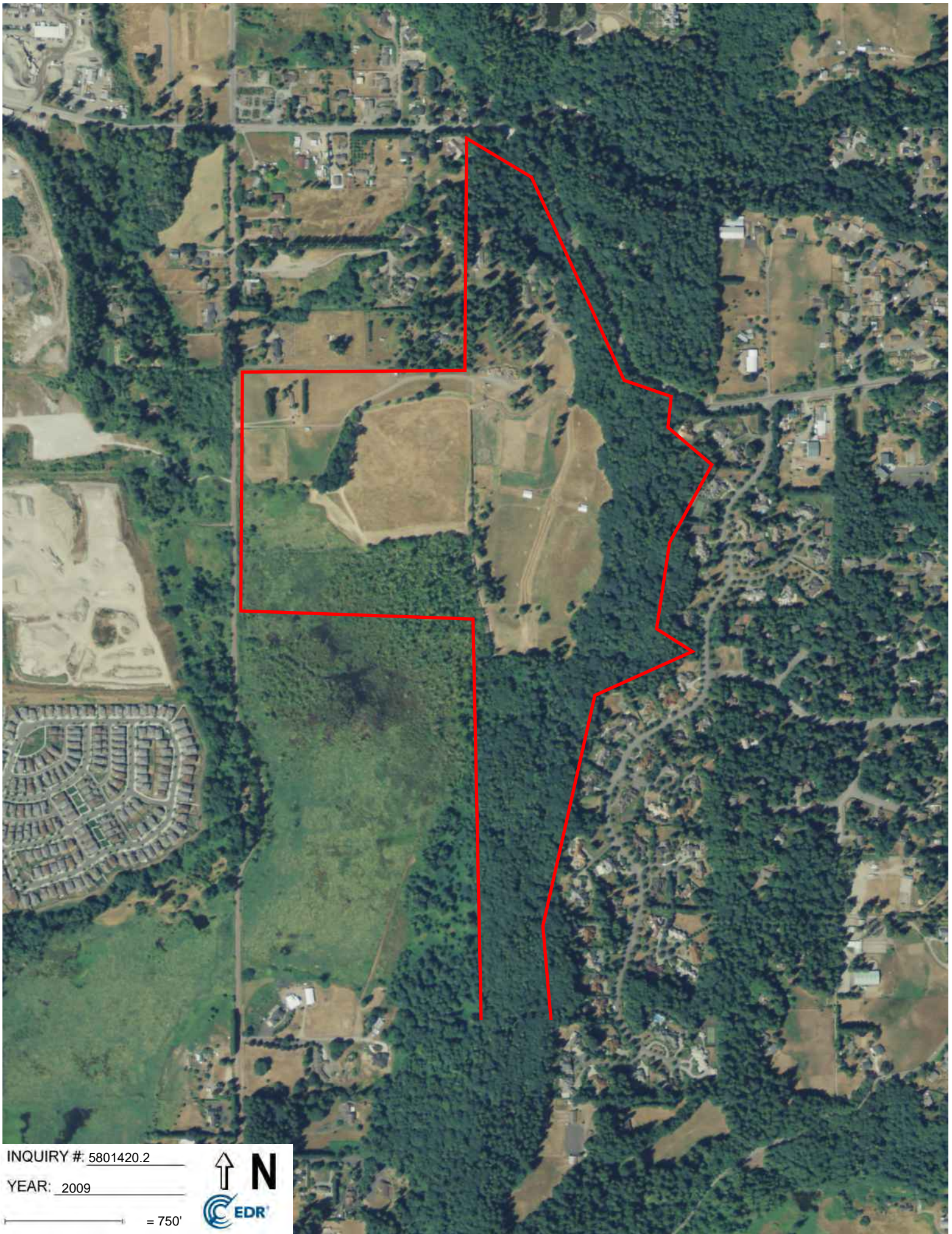


INQUIRY # 5801420.2

YEAR: 2006

— = 750'



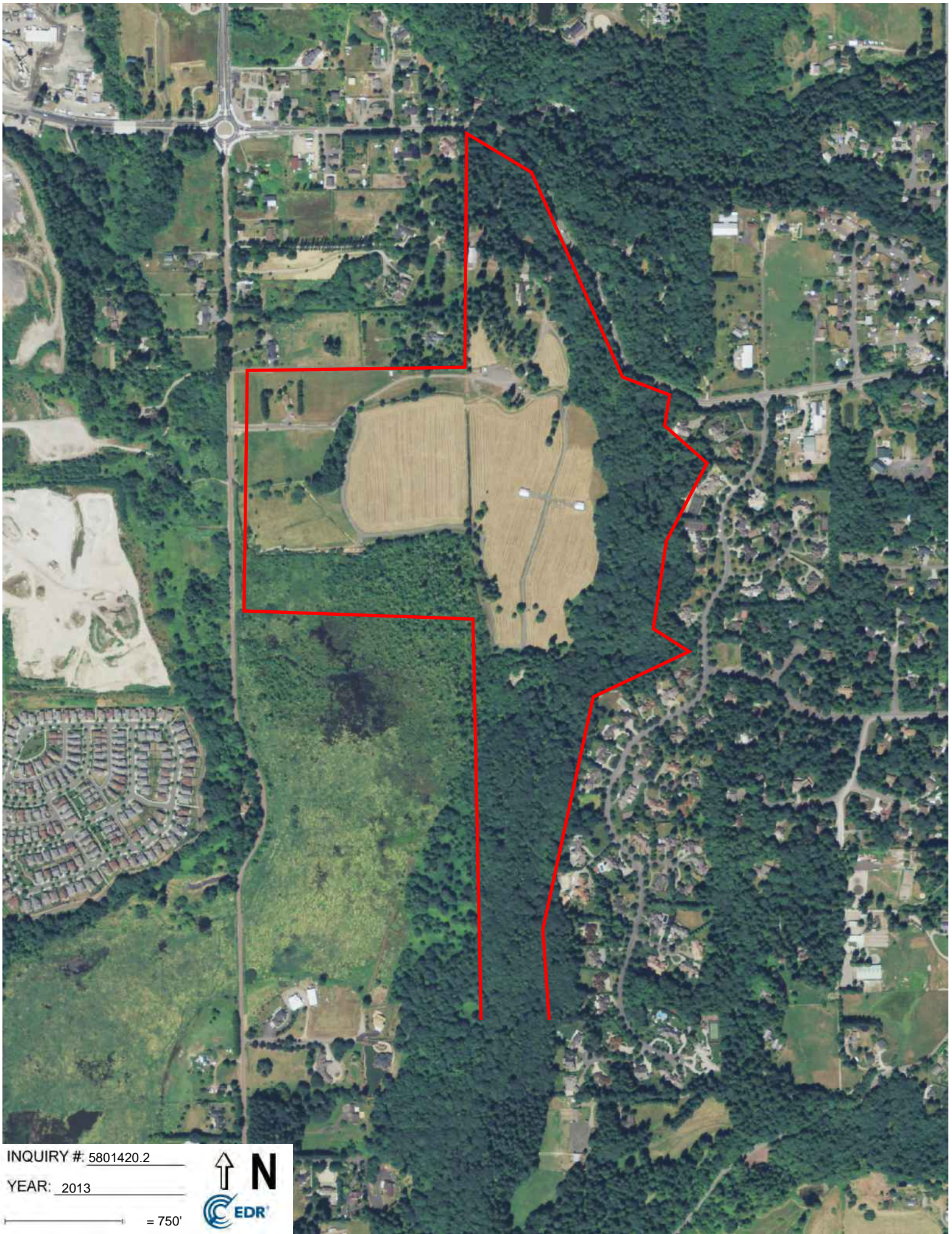


INQUIRY # 5801420.2

YEAR: 2009

— = 750'



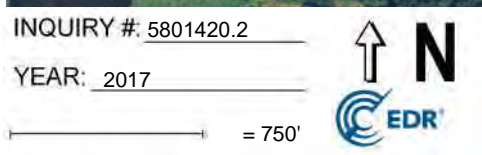


INQUIRY # 5801420.2

YEAR: 2013

— = 750'





APPENDIX B
BORING LOGS

REMEDIAL INVESTIGATION REPORT
Thompson Field Site
Portion of King County Parcel No. 0825069104
Redmond, WA

Farallon PN: 650-031



Log of Boring: BKGRSB01

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 10/23/19 @ 1600
Date/Time Completed: 10/23/19 @ 1650
Equipment: GH60 Geoprobe
Drilling Company: Ecology & Environment
Drilling Foreman: Allen Jensen
Drilling Method: Direct Push

Sampler Type: 4' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 1.5
Total Boring Depth (ft bgs): 16.0
Total Well Depth (ft bgs): 16.0 (Temp.)

| 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 | | 0.0-0.5': No recovery. | | | | | | | | |
| | | 0.5-1.5': Sandy SILT (60% silt, 40% sand), fine sand, brown, moist, no odor, no sheen. | ML | | | | | | | |
| | | 1.5-4.0': SILT (100% silt), gray, wet, no odor, no sheen. | ML | | 88 | | 0.2 | BKGRSB01-01 | X | Water Level |
| 5 | | 4.0-8.0': SILT (100% silt), brown, wet, no odor, no sheen. | ML | | 100 | | 1.4 | BKGRSB01-02 | | |
| | | 8.0-12.0': SILT (100% silt), brown, gray at 10.0' bgs, wet, no odor, no sheen. | ML | | 100 | | 1.1 | BKGRSB01-03 | | Bentonite |
| 10 | | 12.0-16.0': SILT (100% silt), gray, wet, no odor, no sheen. | ML | | 100 | | | BKGRSB01-GW-102319 | X | |
| 15 | | | | | | | | | | |

Well Construction Information

| | | |
|--|--------------------------------------|--|
| Monument Type: NA | Filter Pack: NA | Ground Surface Elevation (ft): NA |
| Casing Diameter (inches): 3/4 (Temp.) | Surface Seal: NA | Top of Casing Elevation (ft): NA |
| Screen Slot Size (inches): 0.010 (Temp.) | Annular Seal: NA | Surveyed Location: X: NA Y: NA |
| Screened Interval (ft bgs): 11-16 (Temp.) | Boring Abandonment: Bentonite | Unique Well ID: NA |



Log of Boring: FB-01

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 1040
Date/Time Completed: 7/30/20 @ 1055
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-3.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass. | ML | | 90 | | 0.0 | FB-01-0.5 | X | |
| | | 3.0-4.5': SILT (90% silt, 10% sand), fine sand, gray to black, moist, no odor, no sheen. | ML | | | | | | | Bentonite |
| | | 4.5-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-6.0': SILT (90% silt, 10% sand), fine sand, gray to black, moist, no odor, no sheen. | ML | | 60 | | | | | |
| | | 6.0-8.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, dark brown, moist, no odor, no sheen, wood and plant fibers. | ML | | | | 0.2 | FB-01-7.0 | X | |
| | | 8.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-15.0': Silty GRAVEL (80% gravel, 20% silt), coarse gravel, brown, wet, no odor, no sheen. | GM | | 100 | | | | | Water Level |
| 15 | | | | | | | 0.2 | FB-01-15.0 | | |

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 Y: NA |
| Screened Interval (ft bgs): NA | Boring Abandonment: Bentonite | Unique Well ID: NA |



Log of Boring: FB-02

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 1040
Date/Time Completed: 7/30/20 @ 1055
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-3.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine and and gravel, brown, dry, no odor, no sheen, grass. | ML | | 80 | | | | | |
| | | 3.0-4.0': SILT (90% silt, 10% sand, 10% gravel), fine to coarse sand, coarse gravel, gray, moist, no odor, no sheen. | ML | | | | | | | |
| | | 4.0-5.0': No recovery. | | | | | 0.2 | FB-02-4.0 | X | |
| 5 | | 5.0-8.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, moist, no odor, no sheen, wood and plant fibers. | ML | | 60 | | 0.2 | FB-02-5.5 | X | |
| | | 8.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-12.0': Well-graded GRAVEL with sand and silt (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | 40 | | | | | |
| | | 12.0-15.0': No recovery. | | | | | | | | |
| 15 | | | | | | | 0.1 | Soil Screen at 11.0' | | |

Well Construction Information

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

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

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



Log of Boring: FB-03

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Date/Time Started: 7/30/20 @ 1140
Date/Time Completed: 7/30/20 @ 1155
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

Farallon PN: 650-031

Logged By: S.Brown

| 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 | | 0.0-3.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, coarse gravel, brown, dry, no odor, no sheen, grass and plant fibers. | ML | | 80 | | 0.0 | FB-03-1.0 | X | Bentonite |
| | | 3.5-4.0': SILT (90% silt, 10% sand), fine sand, gray, mosit, no odor, no sheen, wood and plant fibers. | ML | | | | | | | |
| | | 4.0-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-6.0': SILT (90% silt, 10% sand), fine sand, gray, mosit, no odor, no sheen, wood and plant fibers. | ML | | 80 | | | | | |
| | | 6.0-8.5': Sandy SILT (60% silt, 40% sand), fine sand, brown, moist, no odor, no sheen, plant fibers. | ML | | | | 0.2 | FB-03-6.0 | X | Water Level |
| | | 8.5-9.0': Poorly graded GRAVEL (60% gravel, 30% sand, 10% silt), coarse gravel and sand, dry, no odor, no sheen. | GP | | | | | | | |
| 10 | | 9.0-10.0': No recovery. | | | | | | | | |
| | | 10.0-15.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW | | 100 | | 0.2 | FB-03-13.0 | | |
| 15 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-04

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 1312
Date/Time Completed: 7/30/20 @ 1325
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-2.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass and plant fibers. | ML | | 80 | | 0.1 | FB-04-1.0 | X | |
| | | 2.5-4.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | | | | | | |
| | | 4.0-5.0': No recovery. | | | | | 0.0 | FB-04-4.0 | | |
| 5 | | 5.0-6.5': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | 30 | | 0.2 | FB-04-6.0 | | |
| | | 6.5-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-12.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | 40 | | | | | Water Level |
| | | 12.0-15.0': No recovery. | | | | | 0.0 | FB-04-12.0 | | |
| 15 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-05

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 1330
Date/Time Completed: 7/30/20 @ 1343
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 11
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-2.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, no sheen, grass and plant fibers on ground surface. | ML | | 80 | | | | | |
| | | 2.0-4.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | | | 0.1 | FB-05-3.0 | X | |
| | | 4.0-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-5.5': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | 80 | | | | | |
| | | 5.5-9.0': SILT (100% silt), brown-red, moist, no odor, no sheen, wood, grass and plant fibers. | ML | | | | 0.2 | FB-05-8.0 | | Bentonite |
| | | 9.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-11.0': SILT (100% silt), gray, moist, no odor, no sheen. | ML | | 60 | | | | | |
| | | 11.0-13.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | | | 0.2 | FB-05-11.0 | X | Water Level |
| | | 13.0-15.0': No recovery. | | | | | | | | |
| 15 | | | | | | | | | | |

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 Y: NA |
| Screened Interval (ft bgs): NA | Boring Abandonment: Bentonite | Unique Well ID: NA |



Log of Boring: FB-06

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 1405
Date/Time Completed: 7/30/20 @ 1420
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 11.5
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass and plant fibers. | ML | | 60 | | 0.1 | FB-06-0.5 | | |
| | | 1.0-2.5': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | | | | | | |
| | | 2.5-3.0': Wood fibers, cedar-like odor. | WD | | | | | | | |
| | | 3.0-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-5.5': Wood fibers, cedar-like odor. | WD | | 40 | | | | | |
| | | 5.5-7.0': SILT (100% silt), brown-red, moist, no odor, no sheen, wood, grass and plant fibers. | ML | | | | 0.1 | FB-06-6.0 | X | |
| | | 7.0-10.0': No recovery. | | | | | | | | Bentonite |
| 10 | | 10.0-11.5': SILT (100% silt), gray, moist, no odor. | ML | | 60 | | | | | |
| | | 11.5-13.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet. | GW-GM | | | | 0.0 | FB-06-12.0 | | Water Level |
| | | 13.0-15.0': No recovery. | | | | | | | | |
| 15 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-07

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| | | |
|--|--|---|
| Client: Estate of Barbara J. Nelson | Date/Time Started: 7/31/20 @ 945 | Sampler Type: 5' Macrocore |
| Project: Gunshy Farm | Date/Time Completed: 7/31/20 @ 1000 | Drive Hammer (lbs.): Auto |
| Location: Redmond, WA | Equipment: GeoProbe 7822DT | Depth of Water ATD (ft bgs): 12.0 & 12.5 |
| Farallon PN: 650-031 | Drilling Company: Holt Drilling | Total Boring Depth (ft bgs): 15.0 |
| Logged By: S.Brown | Drilling Foreman: Mike Denning | Total Well Depth (ft bgs): NA |
| | Drilling Method: Direct Push | |

| 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 | | 0.0-2.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 100 | | 0.1 | FB-07-1.0 | | |
| | | 2.0-5.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | | | | | | |
| 5 | | 5.0-6.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray graded to red, dry to moist, no odor, no sheen. | ML | | 50 | | 0.0 | FB-07-5.0 | X | |
| | | 6.0-7.5': SILT (100% silt), brown-red, moist, no odor,, no sheen, grass fibers. | ML | | | | | | | |
| | | 7.5-10.0': No recovery. | | | | | | | | Bentonite |
| 10 | | 10.0-11.0': SILT (100% silt), brown-red, moist, no odor, no sheen. | ML | | 50 | | | | | |
| | | 11.0-12.0': SILT (100% silt), brown, moist to wet, no odor, no sheen. | ML | | | | | | | |
| | | 12.0-12.5': SILT (100% silt), gray, moist to wet, no odor, no sheen. | ML | | | | | | | Water Level |
| | | 12.5-15.0': No recovery. | | | | | | | | |
| 15 | | | | | | | 0.0 | FB-07-15.0 | | |

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 Y: NA |
| Screened Interval (ft bgs): NA | Boring Abandonment: Bentonite | Unique Well ID: NA |



Log of Boring: FB-08

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/31/20 @ 1000
Date/Time Completed: 7/31/20 @ 1010
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 5.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

| 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 | | 0.0-1.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 60 | | 0.2 | FB-08-1.0 | | |
| | | 1.5-3.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray graded to red, dry graded to moist, no odor, no sheen, plant fibers at 3.0' bgs. | ML | | | | | | | |
| | | 3.0-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-7.0': SILT (100% silt), brown-red, moist, wet from 5.0-5.5' bgs, no odor, no sheen, plant fibers. | ML | | 40 | | 0.2 | FB-08-5.5 | X | Water Level |
| | | 7-10.0': No recovery. | | | | | | | | Bentonite |
| 10 | | 10.0-13.0': SILT (100% silt), brown-red, moist, no odor, no sheen, plant fibers. | ML | | 80 | | | | | |
| | | 13.0-14.0': SILT (100% silt), gray, moist to wet, no odor, no sheen, plant fibers. | ML | | | | 0.1 | FB-08-13.0 | | |
| | | 14.0-15.0': No recovery. | | | | | | | | |
| 15 | | | | | | | | | | |

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 Y: NA |
| Screened Interval (ft bgs): NA | Boring Abandonment: Bentonite | Unique Well ID: NA |



Log of Boring: FB-09

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Date/Time Started: 7/31/20 @ 1035
Date/Time Completed: 7/31/20 @ 1050
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.5 & 14.8
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): NA

Farallon PN: 650-031

Logged By: S.Brown

| 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 | | 0.0-2.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 90 | | 0.2 | FB-09-1.0 | | |
| | | 2.0-4.5': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, dry graded to wet, no odor, no sheen. | ML | | | | | | | |
| | | 4.5-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-6.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, wet, no odor, no sheen. | ML | | 80 | | 0.2 | FB-08-5.0 | X | Water Level |
| | | 6.0-9.0': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | | | | | | Bentonite |
| | | 9.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-13.0': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | 100 | | | | | |
| | | 13.0-14.8': SILT (100% silt), brown, moist to wet, no odor, no sheen. | ML | | | | | | | |
| 15 | | 14.8-15.0': SILT (100% silt), gray, wet. | ML | | | | 0.1 | FB-08-15.0 | | Water Level |

Well Construction Information

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

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

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



Log of Boring: FB-10

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 0925
Date/Time Completed: 9/30/2020 0935
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| 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 | 0.0-2.0' | Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, no odor, no sheen, grass and root debris. | ML | | 60 | | 0.0 | FB-10-1.0 | X | |
| | 2.0-3.0' | SILT (90% silt, 10% sand), fine sand, brown, moist, no odor, no sheen. | ML | | | | 0.0 | FB-10-3.0 | X | |
| | 3.0-5.0' | No Recovery | | | | | | | | |
| 5 | 5.0-6.0' | SILT (90% silt, 10% sand), fine sand, brown, moist, no odor, no sheen. | ML | | 70 | | | | | |
| | 6.0-8.5' | SILT (100% silt), blueish white, moist. | ML | | | | | | | |
| | 8.5-10.0' | No Recovery | | | | | 0.0 | FB-10-8.5 | X | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-11

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 0943
Date/Time Completed: 9/30/2020 0950
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~8.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 100 | | | | | |
| | | 1.0-10.0': Silty SAND (70% sand, 30% silt), coarse sand, whiteish yellow, dry, wet at ~8.0' bgs, no odor, no sheen. | SM | | 100 | | 0.0 | FB-11-1.0 | | |
| 5 | | | | | | | 0.1 | FB-11-5.0 | X | |
| | | | | | | | 0.1 | FB-11-8.0 | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Bentonite
Water Level

Well Construction Information

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

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

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



Log of Boring: FB-12

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 0958
Date/Time Completed: 9/30/2020 1003
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 40 | | | | | |
| | | 1.0-2.0': Silty SAND (70% sand, 30% silt), fine to coarse sand, whiteish yellow, dry, no odor, no sheen. | SM | | | | 0.0 | FB-12-1.0 | X | |
| | | 2.0-5.0': No Recovery | | | | | | | | |
| 5 | | 5.0-9.0': Silty SAND (70% sand, 30% silt), fine to coarse sand, whiteish yellow, moist, no odor, no sheen. | SM | | 80 | | 0.0 | FB-12-5.0 | X | |
| | | 9.0-10.0': No Recovery | | | | | 0.0 | FB-12-9.0 | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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




Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1018
Date/Time Completed: 9/30/2020 1029
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|---|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some root and grass debris, some flakes of charcoal debris. | ML |  | 60 | | | | | |
| | | 1.5-3.0': Silty SAND (70% sand, 20% silt, 10% gravel), fine to coarse sand, coarse gravel, whiteish yellow, dry, no odor, no sheen. | SM |  | | | 0.0 | FB-13-1.0 | X | |
| | | 3.0-5.0': No Recovery | | | | | 0.1 | FB-13-3.0 | X | |
| 5 | | 5.0-6.5': (70% sand, 30% silt), fine to coarse sand, whiteish yellow, dry, no odor, no sheen. | SM |  | 30 | | | | | |
| | | 6.5-10.0': No Recovery | | | | | 0.3 | FB-13-6.0 | | Bentonite |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-14

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1030
Date/Time Completed: 9/30/2020 1037
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, no sheen, grass and root debris. | ML | | 30 | | | | | |
| | | 1.5-5.0': No Recovery | | | | | 0.0 | FB-15-1.0 | X | |
| 5 | | 5.0-6.0': Silty SAND (70% sand, 20% silt, 10% gravel), fine to coarse sand, coarse gravel, whiteish yellow, dry, no odor, no sheen. | SM | | 20 | | 0.8 | FB-14-5.0 | | |
| | | 6.0-10.0': No Recovery | | | | | | | | Bentonite |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-15

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1120
Date/Time Completed: 9/30/2020 1128
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, moist, no odor, no sheen, grass and root debris. | ML | | 100 | | | | | |
| | | 1.0-3.0': Silty SAND with gravel (50% sand, 30% gravel, 20% silt), coarse sand, coarse gravel, gray, dry, no odor, no sheen, brick shard at ~2.0' bgs. | SM | | | | 0.0 | FB-15-1.0 | | |
| | | 3.0-4.0': Sandy SILT (80% silt, 20% sand), fine sand, brown, moist, some wood and plant debris. | ML | | | | | | | |
| | | 4.0-5.0': Sandy SILT (80% silt, 20% sand), fine sand, brown, moist. | ML | | | | 0.0 | FB-15-4.0 | | |
| 5 | | 5.0-6.5': Sandy SILT (80% silt, 20% sand), fine sand, gray, moist. | ML | | 60 | | | | | |
| | | 6.5-8.0': SILT (100% silt), brownish red, moist, no odor, no sheen, some plant fiber debris | ML | | | | | | | |
| | | 8.0-10.0': No Recovery | | | | | 0.0 | FB-15-8.0 | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-16

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1135
Date/Time Completed: 9/30/2020 1145
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 5.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-0.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, moist, no odor, no sheen, some grass and root debris. | ML | | 60 | | | | | |
| | | 0.5-1.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, no sheen, some grass and root debris. | CO | | | | 0.1 | FB-16-1.0 | X | |
| | | 1.5-1.8': Concrete. | WD | | | | | | | |
| | | 1.8-2.2': Wood Debris. | SP-SM | | | | 0.1 | FB-16-3.0 | | |
| | | 2.2-3.0': Poorly graded SAND with silt and gravel (70% sand, 20% gravel, 10% silt), fine sand, fine gravel, gray, dry, no odor, no sheen. | | | | | | | | |
| 5 | | 3.0-5.0': No Recovery | ML | | 30 | | | | | |
| | | 5.0-7.5': Sandy SILT (80% silt, 15% sand, 5% gravel), fine sand, fine gravel, brown wet, no odor, no sheen, some grass and plant debris. | | | | | | | | |
| | | 7.5-10.0': No Recovery | | | | | 0.2 | FB-16-7.5 | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-17

Page 1 of 1

Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1155
Date/Time Completed: 9/30/2020 1200
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~6.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, moist, no odor, no sheen, some grass and root debris. | ML | | 80 | | | | | |
| | | 1.0-2.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, no sheen. | ML | | | | 0.0 | FB-17-1.0 | X | |
| | | 2.5-4.0': Sandy SILT (80% silt, 15% sand, 5% gravel), fine sand, fine gravel, brownish gray, moist, no odor, no sheen, some wood debris. | ML | | | | | | | |
| | | 4.0-5.0': No Recovery | | | | | | | | |
| 5 | | 5.0-7.0': Sandy SILT (80% silt, 15% sand, 5% gravel), fine sand, fine gravel, brownish gray, wet, no odor, no sheen, some wood debris. | ML | | 80 | | 0.0 | FB-17-5.0 | X | Bentonite |
| | | 7.0-9.0': SILT (100% silt), brownish red, moist to wet, no odor, no sheen, some plant and root debris. | ML | | | | | | | Water Level |
| | | 9.0-10.0': No Recovery | | | | | 0.1 | FB-17-9.0 | X | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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






Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1310
Date/Time Completed: 9/30/2020 1320
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): NE
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|-------|---|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML |  | 40 | | | | | |
| | | 1.5-1.8': Well-graded SAND with silt (90% sand, 10% silt), fine to coarse sand, black. | SW-SM |  | | | | FB-18-1.0 | | |
| | | 1.8-2.0': Sandy SILT (80% silt, 20% sand), fine to coarse sand, gray, moist, no odor, no sheen, some plant debris. | ML |  | | | | | | |
| | | 2.0-5.0': No Recovery | | | | | | | | |
| 5 | | 5.0-6.0': Silty SAND with gravel (60% sand, 20% silt, 20% gravel), fine sand, coarse gravel, gray, moist, no odor, no sheen, some cobble, some wood debris. | SM |  | 60 | | | FB-18-5.0 | X | |
| | | 6.0-8.0': (100% silt), brownish red, moist to wet, no odor, no sheen, some plant debris. | ML |  | | | | | | Bentonite |
| | | 8.0-10.0': No Recovery | | | | | | FB-18-8.0 | X | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-19

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1330
Date/Time Completed: 9/30/2020 1338
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~8.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|-------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 100 | | | FB-19-1.0 | X | |
| | | 0.1-2.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine and coarse gravel, tan, dry, no odor, no sheen. | ML | | | | | | | |
| | | 2.5-6.0': Silty SAND with gravel (60% sand, 20% silt, 20% gravel), fine sand, coarse gravel, gray, moist, no odor, no sheen, some brick debris, some wood debris. | SM | | 80 | | | FB-19-4.0 | X | |
| 5 | | 6.0-8.0': SILT (100% silt), brownish red, moist to wet, no odor, no sheen, some plant and wood debris. | ML | | | | | | | Bentonite |
| | | 8.0-9.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | | | | FB-19-8.5 | | Water Level |
| 10 | | 9.0-10.0': No Recovery | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-20

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1345
Date/Time Completed: 9/30/2020 1355
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~7.5'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 40 | | | | | |
| | | 1.0-2.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, tan, dry, no odor, no sheen. | ML | | | | | FB-20-1.0 | X | |
| | | 2.0-5.0': No Recovery | | | | | | | | |
| 5 | | 5.0-6.0': Silty SAND with Gravel (60% sand, 20% silt, 20% gravel), fine sand, coarse gravel, gray, moist, no odor, no sheen, some cobble. | SM | | 60 | | | FB-20-5.0 | X | |
| | | 6.0-7.5': SILT (100% silt), brownish red, moist to wet, no odor, no sheen, some plant debris. | ML | | | | | | | Bentonite |
| | | 7.5-8.0': Poorly graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | | | | FB-20-8.0 | X | Water Level |
| | | 8.0-10.0': No Recovery | | | | | | | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-21

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1400
Date/Time Completed: 9/30/2020 1415
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~9.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|--------------|------------|------------|-----------|------------------------|-----------------|----------------------------------|
| 0 | | 0.0-1.3': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 100 | | | | | |
| | | 1.3-1.6': Poorly graded SAND with silt (90% sand, 10% silt), fine to coarse sand, dry, black, no odor, no sheen. | SP-SM | | | | | FB-21-1.0 FB-21-1.5 | X | |
| | | 1.6-6.0': Silty SAND with gravel (60% sand, 20% silt, 20% gravel), fine sand, coarse gravel, gray, dry, no odor or sheen, some cobbles, some brick debris. | SM | | | | | | | |
| 5 | | | | | 90 | | | FB-21-5.0 | X | |
| | | 6.0-9.0': SILT (100% silt), reddish brown, wet to moist, no odor, no sheen, some plant debris. | ML | | | | | | | Bentonite |
| | | 9.0-10.0': No Recovery | | | | | | FB-21-9.0 | | Water Level |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-22

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 9/30/2020 1425
Date/Time Completed: 9/30/2020 1435
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~6.0'
Total Boring Depth (ft bgs): ~10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-2.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 80 | | | FB-22-1.0 | X | |
| | | 2.0-3.5': Silty SAND with gravel (60% sand, 20% silt, 20% gravel), fine sand, coarse gravel, gray, dry, no odor, no sheen. | SM | | | | | | | |
| | | 3.5-4.0': Sandy SILT (80% silt, 20% sand), fine sand, gray, dry, no odor, no sheen. | ML | | | | | FB-22-4.0 | | |
| 5 | | 4.0-5.0': No Recovery | | | | | | | | |
| | | 5.0-6.0': Sandy SILT (80% silt, 20% sand), fine sand, gray, dry, no odor, no sheen. | ML | | 60 | | | | | |
| | | 6.0-8.0': SILT (100% silt), reddish brown, moist to wet, wet at ~6.0' bgs, no odor, no sheen, some plant fiber debris. | ML | | | | | | | |
| | | 8.0-10.0': No Recovery | | | | | | FB-22-8.0 | | |
| 10 | | | | | | | | | | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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







Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 0905
Date/Time Completed: 10/01/2020 0915
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|-------|---|------------|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-2.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry no odor, no sheen, some grass and root debris. | ML |  | 90 | | 6.0 | FB-23-1.0 | X | |
| | | 2.5-3.5': Sandy SILT (75% silt, 25% sand), fine sand, gray, dry, no odor, no sheen. | ML |  | | | | | | |
| | | 3.5-3.8': Wood Debris | WD |  | | | | | | |
| | | 3.8-4.5': SILT (100% silt), redish brown, moist, some plant fiber debris. | ML |  | | | 0.5 | FB-23-4.0 | X | |
| 5 | | 4.5-5.0': No Recovery | | | | | | | | |
| | | 5.0-6.5': SILT (100% silt), redish brown, moist, some plant fiber debris. | ML |  | 50 | | | | | Bentonite |
| | | 6.5-7.5': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, brown, wet, no odor, no sheen. | GW-GM |  | | | 0.5 | FB-23-7.5 | X | |
| | | 7.5-10.0': No Recovery | | | | | | | | |
| 10 | | | | | | | | | | Water Level |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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







Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 0926
Date/Time Completed: 10/01/2020 0937
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~7.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|-------|---|------------|-----------|------------|-----------------|----------------------------------|
| 0 | 0.0-2.0' | sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML |  | 60 | 0.5 | FB-24-1.0 | | |
| | 2.0-2.1' | Wood Debris | WD |  | | | | | |
| | 2.1-3.0' | Sandy SILT (75% silt, 25% sand), fine sand, gray, moist, no odor, no sheen. | ML |  | | 1.4 | FB-24-3.0 | X | |
| | 3.0-5.0' | No Recovery | | | | | | | |
| 5 | 5.0-7.0' | SILT (100% silt), redish brown, moist, no odor, no sheen. | ML |  | 80 | 0.7 | FB-24-6.0 | X | Bentonite |
| | 7.0-8.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM |  | | | | | Water Level |
| | 8.0-10.0' | No Recovery | | | | | | | |
| 10 | 10.0-14.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM |  | 90 | | | | |
| | 14.0-15.0' | No Recovery | | | | 0.5 | FB-24-14.0 | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-25

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 0954
Date/Time Completed: 10/01/2020 1002
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~7.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|-------|--------------|------------|-----------|------------|-----------------|----------------------------------|
| 0 | 0.0-2.0' | Sandy SILT (60% Silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 60 | 0.9 | FB-25-1.0 | X | |
| | 2.0-3.0' | Sandy SILT with gravel (60% silt, 20% sand, 20% gravel), fine to coarse sand, fine and coarse gravel, gray, moist, no odor, no sheen. | ML | | | 1.3 | FB-25-3.0 | X | |
| | 3.0-5.0' | No Recovery | | | | | | | |
| 5 | 5.0-7.0' | SILT (100% silt), reddish brown, moist to wet, no odor, no sheen, some plant fiber debris. | ML | | 60 | | | | Bentonite |
| | 7.0-8.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, brown, wet, no odor, no sheen. | GW-GM | | | 6.4 | FB-25-7.5 | X | Water Level |
| | 8.0-10.0' | No Recovery | | | | | | | |
| 10 | 10.0-12.5' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, brown, wet, no odor, no sheen. | GW-GM | | 50 | | | | |
| | 12.5-15.0' | No Recovery | | | | 1.4 | FB-25-12.5 | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

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

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

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






Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 1010
Date/Time Completed: 10/01/2020 1018
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~8.0'
Total Boring Depth (ft bgs): 10.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|---|------------|-----------|-----------|-----------------|----------------------------------|
| 0 | | 0.0-1.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen. | ML |  | 80 | | | | |
| | | 1.0-2.5': Sandy SILT with gravel (60% silt, 20% sand, 20% gravel), fine sand, fine to coarse gravel, tan, no odor, no sheen, wood at 2.5' bgs. | ML |  | | 1.3 | FB-26-1.0 | | |
| | | 2.5-4.0': Sandy SILT with gravel (60% silt, 20% sand, 20% gravel), fine sand, fine to coarse gravel, gray, no odor, no sheen. | ML |  | | | | | |
| | | 4.0-5.0': No Recovery | | | | | | | |
| 5 | | 5.0-7.0': SILT (100% silt), redish brown, moist, some plant fibers, no odor, no sheen. | ML |  | 60 | 1.5 | FB-26-5.0 | X | Bentonite |
| | | 7.0-8.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM |  | | 0.7 | FB-26-8.0 | | Water Level |
| | | 8.0-10.0': No Recovery | | | | | | | |
| 10 | | | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

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

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

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




Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 1030
Date/Time Completed: 10/01/2020 1039
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~5.5'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|---|------------|-----------|------------|-----------------|----------------------------------|
| 0 | 0.0-1.5' | Sandy SILT (60% silt, 30% sand, 10% gravel), fine to coarse sand, fine gravel, brown, dry, no odor, no sheen, some plant and root debris at top ~6". | ML |  | 30 | 0.0 | FB-27-1.0 | X | |
| | 1.5-5.0' | No Recovery | | | | | | | |
| 5 | 5.0-6.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM |  | 20 | 0.4 | FB-27-5.0 | X | Bentonite |
| | 6.0-10.0' | No Recovery | | | | | | | Water Level |
| 10 | 10.0-11.5' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM |  | 30 | 0.7 | FB-27-11.0 | | |
| | 11.5-15.0' | No Recovery | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FB-29

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: E. Bugge

Date/Time Started: 1/8/2021 1140
Date/Time Completed: 1/8/2021 1240
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 4.0'
Total Boring Depth (ft bgs): 14.0'
Total Well Depth (ft bgs): NA

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | pH in Soil | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|--------------|------------|------------|-----------|------------|-----------------|----------------------------------|
| 0 | | 0.0-4.0': Silty SAND (60% silt, 35% sand, 5% gravel), fine sand, dark brown, moist, organic odor, some grass fiber debris. | SM | | 100 | | | | | |
| 4 | | 4.0-5.0': Silty SAND (70% sand, 20% silt, 10% gravel), fine sand, brown, wet, organic odor, large wood debris at ~5.0'. | SM | | | | 0.7 | | | Water Level |
| 5 | | 5.0-6.0': Silty SAND (90% silt, 10% sand), fine sand, grayish brown, wet, no odor. | SM | | 40 | | 6.0 | FB-29-5.0 | | |
| 6 | | 6.0-7.0': Silty SAND (80% sand, 20% silt), fine sand, grayish brown, moist, no odor. | SM | | | | | | | |
| 7 | | 7.0-10.0': No Recovery | | | | | | | | Bentonite |
| 10 | | 10.0-14.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, coarse sand, gray, wet, no odor. | GW-GM | | 80 | | 0.1 | FB-29-10.0 | | |
| 14 | | | | | | | 0.0 | FB-29-14.0 | X | |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

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

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

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



Log of Boring: FMW-01

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S.Brown

Date/Time Started: 7/30/20 @ 858
Date/Time Completed: 7/30/20 @ 935
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 14.9
Total Boring Depth (ft bgs): 20.0
Total Well Depth (ft bgs): 16.0

| 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 | | 0.0-1.8': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 78 | | | | | Concrete |
| | | 1.8-2.0': Wood fibers. | WD | | | | | | | |
| | | 2.0-3.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, moist, no odor, no sheen, wood and plant fibers. | ML | | | | | | | |
| | | 3.0-3.9': Sandy SILT (70% silt, 30% sand), fine to medium sand, brown, moist, no odor, no sheen, wood and plant fibers. | ML | | | | | | | |
| | | 3.9-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-10.0': SILT (90% silt, 10% sand), fine sand, brown, moist, no odor, no sheen. | ML | | 100 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 10 | | 10.0-14.8': SILT (100% silt), gray, moist to wet, no odor, no odor, no sheen. | ML | | 100 | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 15 | | 14.8-15.0': Silty GRAVEL (80% gravel, 20% silt), coarse gravel, gray, wet, no odor, no sheen. | GM | | 100 | | | | | |
| | | 15.0-20.0': Silty GRAVEL (80% gravel, 20% silt), coarse gravel, gray, wet, no odor, no sheen. | GM | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 6-16

Filter Pack: Pre-pack & 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
Unique Well ID: BMP-187



Log of Boring: FMW-02

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Date/Time Started: 7/30/20 @ 1200
Date/Time Completed: 7/30/20 @ 1220
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): 13.5

Farallon PN: 650-031

Logged By: S.Brown

| 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 | | 0.0-3.0': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 80 | | | | | Concrete |
| | | 3.0-4.0': SILT (90% silt, 10% sand), fine sand, brown, moist, no odor, no sheen. | ML | | | | 0.1 | FMW-02-3.0 | X | Bentonite |
| | | 4.0-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-6.5': SILT with sand (75% silt, 25% sand), fine sand, gray, moist, no odor, no sheen. | ML | | 100 | | | | | |
| | | 6.5-10.0': Silty GRAVEL (80% gravel, 20% silt), coarse gravel and sand, gray, wet, no odor, no sheen. | GM | | | | 0.2 | FMW-02-6.0 | X | Sand Pack |
| 10 | | 10.0-14.5': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | 90 | | | | | Water Level |
| | | 14.5-15.0': No recovery. | | | | | 0.2 | FMW-02-14.0 | X | Screen |
| 15 | | | | | | | | | | Bentonite |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 3.5-13.5

Filter Pack: Pre-pack & 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
Unique Well ID: BMP-188



Log of Boring: FMW-03

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Date/Time Started: 7/31/20 @ 0805
Date/Time Completed: 7/30/20 @ 0827
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 15.0
Total Well Depth (ft bgs): 15.0

Farallon PN: 650-031

Logged By: S.Brown

| 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 | | 0.0-1.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand and gravel, brown, dry, no odor, no sheen, grass fibers. | ML | | 80 | | | | | Concrete |
| | | 1.5-4.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | | | 0.1 | Soil Screen at 2.5' | | Bentonite |
| | | 4.5-5.0': No recovery. | | | | | | | | |
| 5 | | 5.0-5.5': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, gray, dry, no odor, no sheen. | ML | | 80 | | 0.1 | FMW-03-5.0 | X | |
| | | 5.5-9.0': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | | | | | | Sand Pack |
| | | 9.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-11.0': SILT (100% silt), gray, wet, no odor, no sheen, plant fibers. | ML | | 60 | | 0.0 | FMW-03-10.0 | X | Water Level |
| | | 11.0-13.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | | | | | | Screen |
| | | 13.0-15.0': No recovery. | | | | | | | | |
| 15 | | 15.0-19.5': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet, no odor, no sheen. | GW-GM | | 100 | | | | | Bentonite |
| 20 | | 19.5-20.0': SILT (100% silt), gray, moist, no odor. | ML | | | | 0.1 | FMW-03-20.0 | X | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 5-15

Filter Pack: Pre-pack & 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
Unique Well ID: BMP-189



Log of Boring: FMW-04

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Date/Time Started: 7/31/20 @ 1050
Date/Time Completed: 7/30/20 @ 1116
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0
Total Boring Depth (ft bgs): 14.0
Total Well Depth (ft bgs): 20.0

Farallon PN: 650-031

Logged By: S.Brown

| 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': No recovery. | | | 0 | | | | | Concrete |
| 5 | | 5.0-7.0': SILT with sand (80% silt, 10% sand, 10% gravel), fine sand and gravel, brown, moist, no odor, no sheen, organic fibers. | ML | | 80 | | 0.1 | FMW-04-6.0 | X | Bentonite |
| | | 7.0-9.0': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | | | | | | |
| | | 9.0-10.0': No recovery. | | | | | | | | |
| 10 | | 10.0-12.0': SILT (100% silt), brown-red, moist, no odor, no sheen, grass and plant fibers. | ML | | 80 | | | | | |
| | | 12.0-14.0': SILT (100% silt), brown, moist to wet, no odor, no sheen. | ML | | | | 0.2 | FMW-04-12.0 | X | Screen |
| | | 14.0-15.0': No recovery. | | | | | | | | Water Level |
| 15 | | 15.0-17.0': SILT (100% silt), gray, wet. | ML | | 60 | | | | | Sand Pack |
| | | 17.0-18.0': Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine to coarse gravel, coarse sand, gray, wet. | GW-GM | | | | 0.2 | FMW-04-17.0 | | |
| | | 18.0-20.0': No recovery. | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 10-20

Filter Pack: Pre-pack & 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
Unique Well ID: BMP-190



Log of Boring: FMW-05

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 1105
Date/Time Completed: 10/01/2020 1200
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 10.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): 13.0'

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|-------|--------------|------------|-----------|-------------|-----------------|----------------------------------|
| 0 | 0.0-1.5' | Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen. | ML | | 40 | 1.2 | FMW-05-0.1 | X | Concrete |
| | 1.5-2.0' | Sandy SILT (80% silt, 20% sand), fine sand, gray, dry, no odor, no sheen. | ML | | | | | | Bentonite |
| | 2.0-5.0' | No Recovery | | | | | | | |
| 5 | 5.0-6.0' | Sandy SILT (80% silt, 20% sand), fine sand, gray, dry, no odor, no sheen. | ML | | 80 | 1.7 | FMW-05-6.0 | X | Sand Pack |
| | 6.0-8.5' | SILT (100% silt), reddish brown, moist, no odor, no sheen. | ML | | | | | | Screen |
| | 8.5-9.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM | | | | | | Water Level |
| 10 | 9.0-10.0' | No Recovery | | | | | | | |
| | 10.0-13.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine to coarse sand, gray, wet, no odor, no sheen. | GW-GM | | 60 | 1.9 | FMW-05-13.0 | | Bentonite |
| | 13.0-15.0' | No Recovery | | | | | | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 3.0"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 3.0-10.0'

Filter Pack: Pre-pack & 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
Unique Well ID: NA



Log of Boring: FMW-06

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 1307
Date/Time Completed: 10/01/2020 1320
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~3.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): 13.0'

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|--|------|--------------|------------|-----------|-------------|-----------------|----------------------------------|
| 0 | 0.0-1.0': | Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris, some brick debris at 1.0' bgs. | ML | | 60 | 1.2 | FMW-06-1.0 | X | |
| | 1.0-2.0': | Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, tan, dry, no odor, no sheen. | ML | | | | | | |
| | 2.0-3.0': | Sandy SILT (70% silt, 30% sand), fine sand, brown, moist to wet, some wood debris. | ML | | | | | | |
| | 3.0-5.0': | No Recovery | | | | | | | |
| 5 | 5.0-7.0': | SILT (100% silt), brownish red, moist to wet, no odor, some plant fiber debris. | ML | | 40 | 1.7 | FMW-06-5.0 | X | |
| | 7.0-10.0': | No Recovery | | | | | | | |
| | 10.0-12.0': | SILT (100% silt), brownish red, moist to wet, no odor, some plant fiber debris. | ML | | 80 | | | | |
| | 12.0-14.0': | SILT (100% silt), grayish white, moist to wet, no odor, no sheen. | ML | | | | | | |
| | 14.0-15.0': | No Recovery | | | | 2.2 | FMW-06-14.0 | | |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 3.0"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 3.0-10.0'

Filter Pack: Pre-pack & 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
Unique Well ID: NA



Log of Boring: FMW-07

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Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: S. Brown

Date/Time Started: 10/01/2020 1407
Date/Time Completed: 10/01/2020 1427
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): ~3.0'
Total Boring Depth (ft bgs): 15.0'
Total Well Depth (ft bgs): 13.0'

| Depth (feet bgs.) | Sample Interval | Lithologic Description | USCS | USCS Graphic | % Recovery | PID (ppm) | Sample ID | Sample Analyzed | Boring/Well Construction Details |
|-------------------|-----------------|---|------|--------------|------------|-----------|-------------|-----------------|----------------------------------|
| 0 | | 0.0-2.5': Sandy SILT (60% silt, 30% sand, 10% gravel), fine sand, fine gravel, brown, dry, no odor, no sheen, some grass and root debris. | ML | | 60 | | FMW-07-1.0 | X | Concrete |
| | | 2.5-2.7': Wood Debris | WD | | | | | | Bentonite |
| | | 2.5-3.0': SILT (100% silt), redish brown, wet to moist, no odor, no sheen, some plant fiber debris. | ML | | | | | | Water Level |
| | | 3.0-5.0': No Recovery | | | | | | | |
| 5 | | 5.5-8.8': SILT (100% silt), redish brown, wet to moist, no odor, no sheen, some plant fiber debris. | ML | | 90 | | FMW-07-5.0 | X | Sand Pack |
| | | 8.8-9.0': SILT (100% silt), gray, wet to moist, no odor, no sheen. | ML | | | | | | Screen |
| 10 | | 10.0-14.0': SILT (100% silt), whiteish gray, wet, no odor, no sheen. | ML | | 90 | | | | |
| | | 14.0-15.0': No Recovery | | | | | FMW-07-14.0 | | Bentonite |
| 15 | | | | | | | | | |
| 20 | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 3.0"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 3.0-10.0'

Filter Pack: Pre-pack & 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
Unique Well ID: NA




Client: Estate of Barbara J. Nelson
Project: Gunshy Farm
Location: Redmond, WA

Farallon PN: 650-031

Logged By: E. Bugge

Date/Time Started: 1/8/2021 0845
Date/Time Completed: 1/8/2021 1040
Equipment: GeoProbe 7822DT
Drilling Company: Holt Drilling
Drilling Foreman: Mike Denning
Drilling Method: Direct Push

Sampler Type: 5' Macrocore
Drive Hammer (lbs.): Auto
Depth of Water ATD (ft bgs): 5.0'
Total Boring Depth (ft bgs): 13.0'
Total Well Depth (ft bgs): 13.0'

| 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 | 0.0-2.0' | Silty SAND with gravel (70% sand, 20% silt, 10% gravel), fine sand, brown, dry to moist, organic odor. | SM |  | 40 | | 0.1 | FMW-08-1.0 | | Concrete |
| | 2.0-5.0' | No Recovery | | | | | | | | Bentonite |
| | | | | | | | | | | Water level after stabilization |
| 5 | 5.0-7.5' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine and coarse sand, gray, wet, no odor. | GW-GM |  | 50 | | 0.1 | FMW-08-5.0 | | Water Level |
| | 7.5-10.0' | No Recovery | | | | | | | | Sand Pack |
| 10 | 10.0-13.0' | Well-graded GRAVEL with silt and sand (70% gravel, 20% sand, 10% silt), fine and coarse gravel, fine and coarse sand, gray, wet, no odor. | GW-GM |  | 60 | | 0.1 | FMW-08-13.0 | | PVC Screen |
| 15 | | | | | | | | | | |
| 20 | | | | | | | | | | |

Well Construction Information

Monument Type: Flush Mount
Casing Diameter (inches): 2"
Screen Slot Size (inches): 0.010
Screened Interval (ft bgs): 3.0-13.0'

Filter Pack: Pre-pack & 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
Unique Well ID: BMP-089

APPENDIX C
LABORATORY ANALYTICAL REPORTS

REMEDIAL INVESTIGATION REPORT
Thompson Field Site
Portion of King County Parcel No. 0825069104
Redmond, WA

Farallon PN: 650-031



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

November 1, 2019

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 1910-339

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

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: November 1, 2019
Samples Submitted: October 24, 2019
Laboratory Reference: 1910-339
Project: 650-031

Case Narrative

Samples were collected on October 23, 2019 and received by the laboratory on October 24, 2019. 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: November 1, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | BH01-02 | | | | | |
| Laboratory ID: | 10-339-02 | | | | | |
| Diesel Range Organics | 40 | 30 | NWTPH-Dx | 10-28-19 | 10-28-19 | N |
| Lube Oil Range Organics | 180 | 60 | NWTPH-Dx | 10-28-19 | 10-28-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 86 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|------|
| Client ID: | BH01-02 | | | | | |
| Laboratory ID: | 10-339-02 | | | | | |
| Diesel Range Organics | 40 | 30 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1,N |
| Lube Oil Range Organics | 130 | 60 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 91 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|---|
| Client ID: | BH02-02 | | | | | |
| Laboratory ID: | 10-339-05 | | | | | |
| Diesel Range Organics | 190 | 46 | NWTPH-Dx | 10-28-19 | 10-28-19 | N |
| Lube Oil Range Organics | 1000 | 92 | NWTPH-Dx | 10-28-19 | 10-28-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 87 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|------|
| Client ID: | BH02-02 | | | | | |
| Laboratory ID: | 10-339-05 | | | | | |
| Diesel Range Organics | 46 | 46 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1,N |
| Lube Oil Range Organics | 200 | 92 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 94 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|---|
| Client ID: | BH03-02 | | | | | |
| Laboratory ID: | 10-339-08 | | | | | |
| Diesel Range Organics | 200 | 48 | NWTPH-Dx | 10-28-19 | 10-28-19 | N |
| Lube Oil Range Organics | 710 | 96 | NWTPH-Dx | 10-28-19 | 10-28-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 91 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|------|
| Client ID: | BH03-02 | | | | | |
| Laboratory ID: | 10-339-08 | | | | | |
| Diesel Range Organics | 60 | 48 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1,N |
| Lube Oil Range Organics | 100 | 96 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 101 | 50-150 | | | | |



Date of Report: November 1, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1028S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-28-19 | 10-28-19 | |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-28-19 | 10-28-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 107 | 50-150 | | | | |

METHOD BLANK

| | | | | | | |
|-------------------------|------------------|----------------|----------|----------|----------|----|
| Laboratory ID: | MB1028S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-28-19 | 10-28-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 114 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 10-329-03 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | |
| Surrogate: | | | | | | | | |
| o-Terphenyl | | | | 72 | 84 | 50-150 | | |



Date of Report: November 1, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-----------------------|----------------|----------|---------------|---------------|-------|
| Client ID: | BH01-GW-102319 | | | | | |
| Laboratory ID: | 10-339-12 | | | | | |
| Diesel Range Organics | ND | 0.29 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Lube Oil Range Organics | ND | 0.47 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 111 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-----------------------|----------------|----------|----------|----------|----|
| Client ID: | BH01-GW-102319 | | | | | |
| Laboratory ID: | 10-339-12 | | | | | |
| Diesel Range Organics | ND | 0.29 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Lube Oil Range Organics | ND | 0.47 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 115 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-----------------------|----------------|----------|----------|----------|--|
| Client ID: | BH02-GW-102319 | | | | | |
| Laboratory ID: | 10-339-13 | | | | | |
| Diesel Range Organics | ND | 0.28 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Lube Oil Range Organics | ND | 0.46 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 110 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-----------------------|----------------|----------|----------|----------|----|
| Client ID: | BH02-GW-102319 | | | | | |
| Laboratory ID: | 10-339-13 | | | | | |
| Diesel Range Organics | ND | 0.28 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Lube Oil Range Organics | ND | 0.46 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 94 | 50-150 | | | | |

| | | | | | | |
|-------------------------|---------------------------|----------------|----------|----------|----------|--|
| Client ID: | BKGRSB01-GW-102319 | | | | | |
| Laboratory ID: | 10-339-14 | | | | | |
| Diesel Range Organics | ND | 0.29 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Lube Oil Range Organics | ND | 0.47 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 112 | 50-150 | | | | |

| | | | | | | |
|-------------------------|---------------------------|----------------|----------|----------|----------|----|
| Client ID: | BKGRSB01-GW-102319 | | | | | |
| Laboratory ID: | 10-339-14 | | | | | |
| Diesel Range Organics | ND | 0.29 | NWTPH-Dx | 10-28-19 | 10-30-19 | X1 |
| Lube Oil Range Organics | ND | 0.47 | NWTPH-Dx | 10-28-19 | 10-30-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 124 | 50-150 | | | | |



Date of Report: November 1, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1028W1 | | | | | |
| Diesel Range Organics | ND | 0.25 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Lube Oil Range Organics | ND | 0.40 | NWTPH-Dx | 10-28-19 | 10-29-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 112 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1028W1 | | | | | |
| Diesel Range Organics | ND | 0.25 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Lube Oil Range Organics | ND | 0.40 | NWTPH-Dx | 10-28-19 | 10-29-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 112 | 50-150 | | | | |

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|----------------|----------|-------|-------------|----|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | | | |
| Laboratory ID: | SB1028W1 | | | | | | | | | |
| | ORIG | DUP | | | | | | | | |
| Diesel Fuel #2 | 0.895 | 0.908 | NA | NA | | NA | NA | 1 | NA | |
| Lube Oil Range | ND | ND | NA | NA | | NA | NA | NA | NA | |
| Surrogate: | | | | | | | | | | |
| o-Terphenyl | | | | | | 105 | 98 | 50-150 | | |



Date of Report: November 1, 2019
Samples Submitted: October 24, 2019
Laboratory Reference: 1910-339
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|------------------|---------------|-------------------|----------------------|
| BH01-02 | 10-339-02 | 17 | 10-28-19 |
| BH02-02 | 10-339-05 | 46 | 10-28-19 |
| BH03-02 | 10-339-08 | 48 | 10-28-19 |





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 methods 8260 & 8270, 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 2

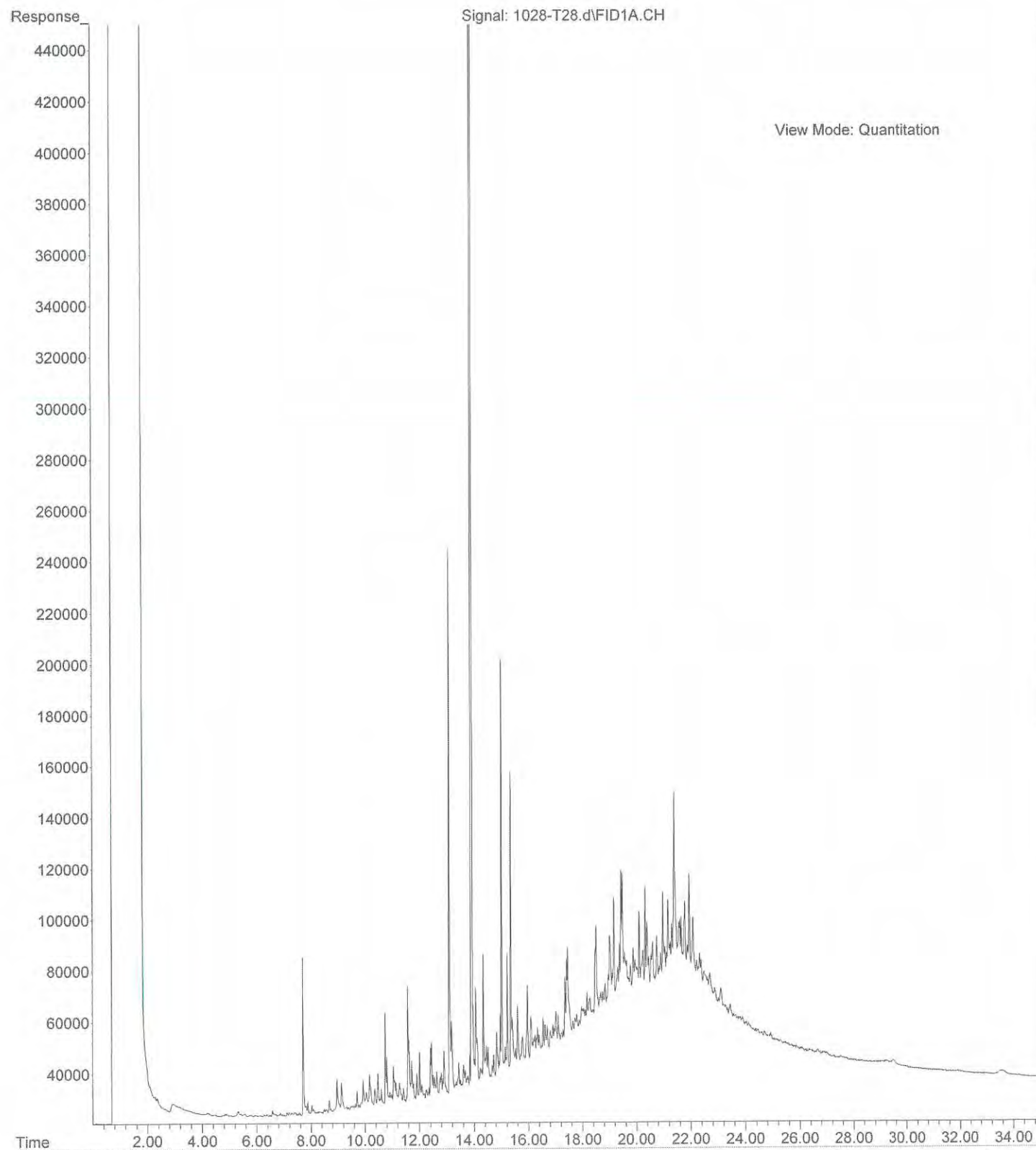
| | | | | | | | | | |
|---|--|--|--|--|--|--|--|--|--|
| Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.on-site-env.com | | | | | | | | | |
| Civil Engineering Inc. | | | | | | | | | |
| Company: <u>Favallan</u> | | | | | | | | | |
| Project Number: <u>650-031</u> | | | | | | | | | |
| Project Name: <u>Gumshy</u> | | | | | | | | | |
| Project Manager: <u>Schmitt</u> | | | | | | | | | |
| Sampled by: <u>SUB</u> | | | | | | | | | |
| 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) | | | | | | | | | |
| Date Sampled: <u>10/23/19</u> Time Sampled: <u>1040</u> Matrix: <u>Soil</u> | | | | | | | | | |
| Number of Containers | | | | | | | | | |
| NWTPH-HCID | | | | | | | | | |
| NWTPH-Gx/BTEX | | | | | | | | | |
| NWTPH-Gx | | | | | | | | | |
| NWTPH-Dx <input checked="" 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 | | | | | | | | | |
| Lab ID | | | | | | | | | |
| Sample Identification | | | | | | | | | |
| 1 BH01-01 | | | | | | | | | |
| 2 BH01-02 | | | | | | | | | |
| 3 BH01-03 | | | | | | | | | |
| 4 BH02-01 | | | | | | | | | |
| 5 BH02-02 | | | | | | | | | |
| 6 BH02-03 | | | | | | | | | |
| 7 BH02-01 | | | | | | | | | |
| 8 BH03-01 | | | | | | | | | |
| 9 BH03-02 | | | | | | | | | |
| Signature: <u>[Signature]</u> Company: <u>Favallan</u> Date: <u>10/24/19</u> Time: <u>1200</u> | | | | | | | | | |
| Comments/Special Instructions: <u>Run selected Dx sampler with and without silica gel cleanup</u> | | | | | | | | | |
| Relinquished | | | | | | | | | |
| Received | | | | | | | | | |
| Relinquished | | | | | | | | | |
| Received | | | | | | | | | |
| Relinquished | | | | | | | | | |
| Received | | | | | | | | | |
| Reviewed/Date | | | | | | | | | |

Page 2 of 2

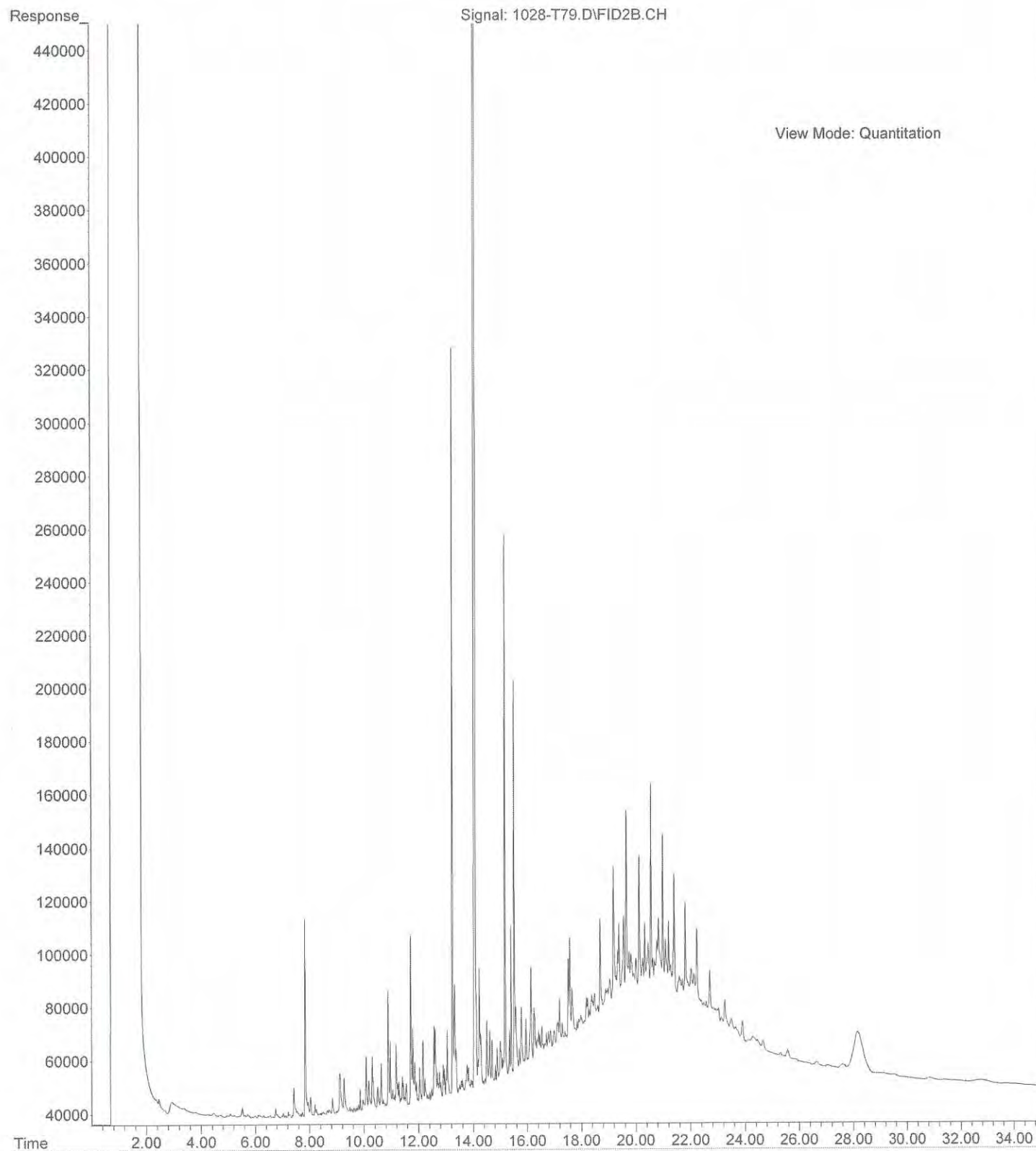
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| Company: | | | | | |
|--|--|--|--|--|--|
| (Check One) | | | | | |
| Project Number: | | | | | |
| Project Name: | | | | | |
| Project Manager: | | | | | |
| Sampled by: | | | | | |
| Date Sampled | | | | | |
| Time Sampled | | | | | |
| Matrix | | | | | |
| Number of Containers | | | | | |
| NWTPH-HCID | | | | | |
| NWTPH-Gx/BTEX | | | | | |
| NWTPH-Gx | | | | | |
| NWTPH-Dx (<input checked="" 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 | | | | | |

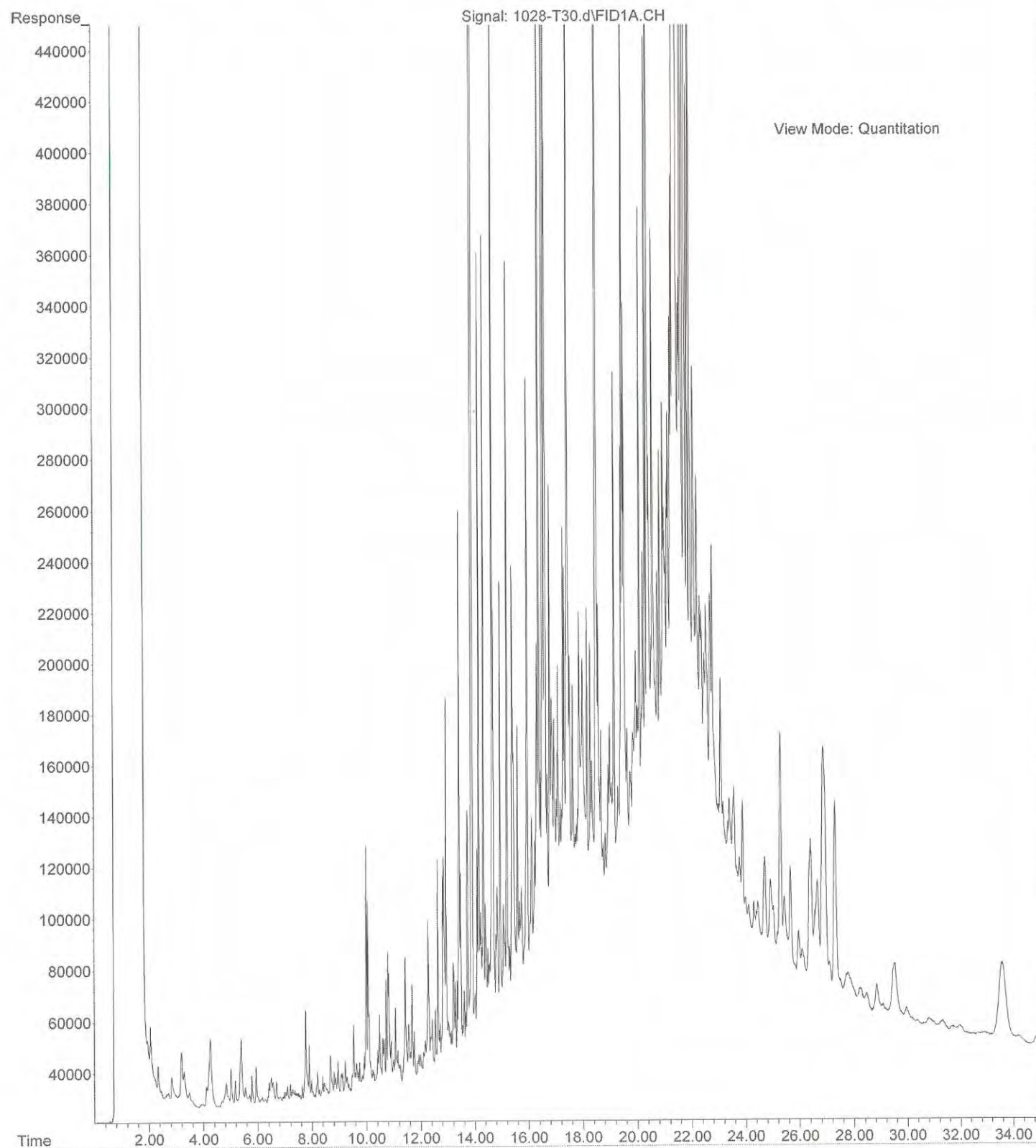
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Operator : JT
Acquired : 29 Oct 2019 3:05 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-02
Misc Info :
Vial Number: 28



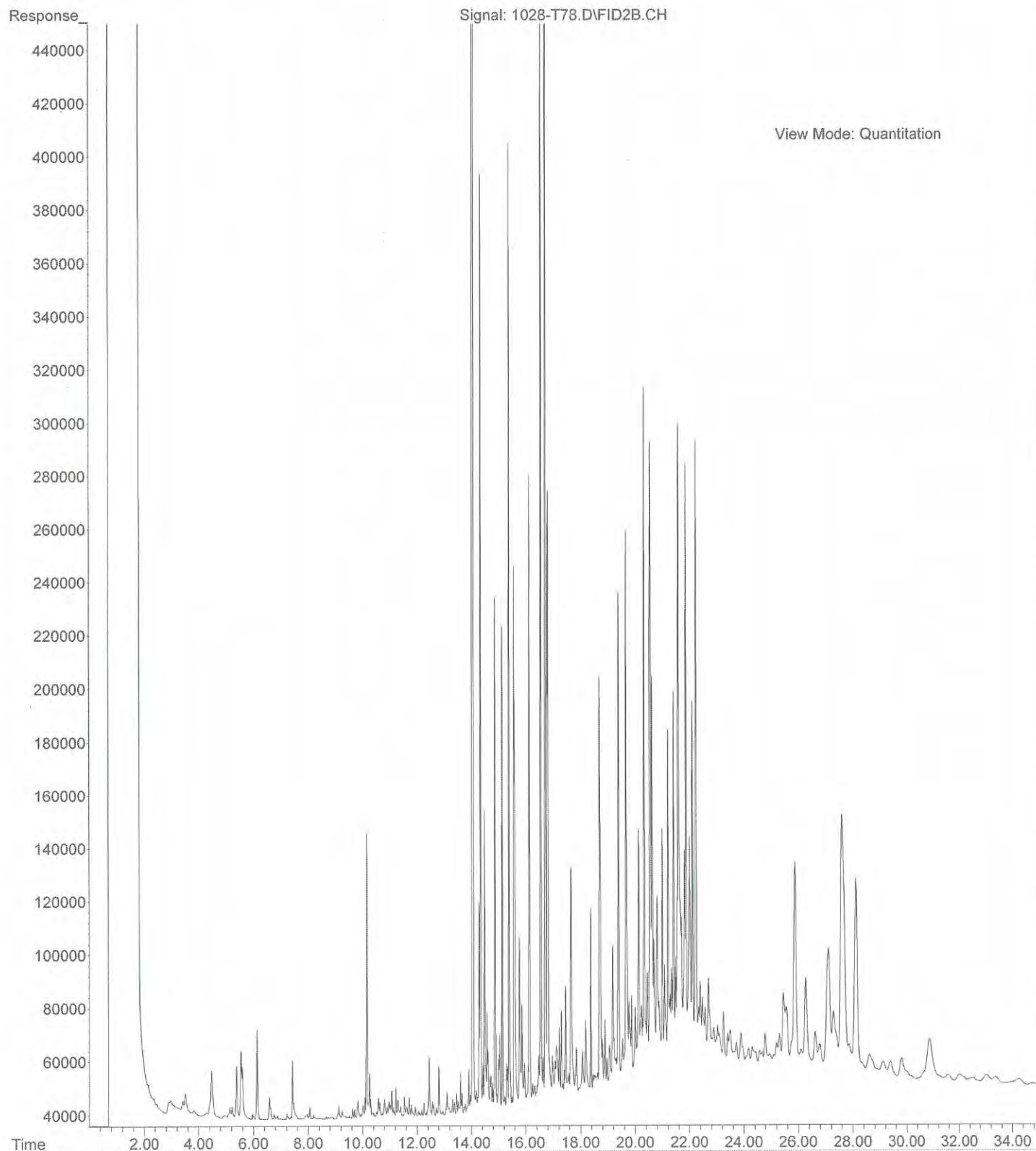
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Instrument : Teri
Sample Name: 10-339-02 ACU
Misc Info :
Vial Number: 79



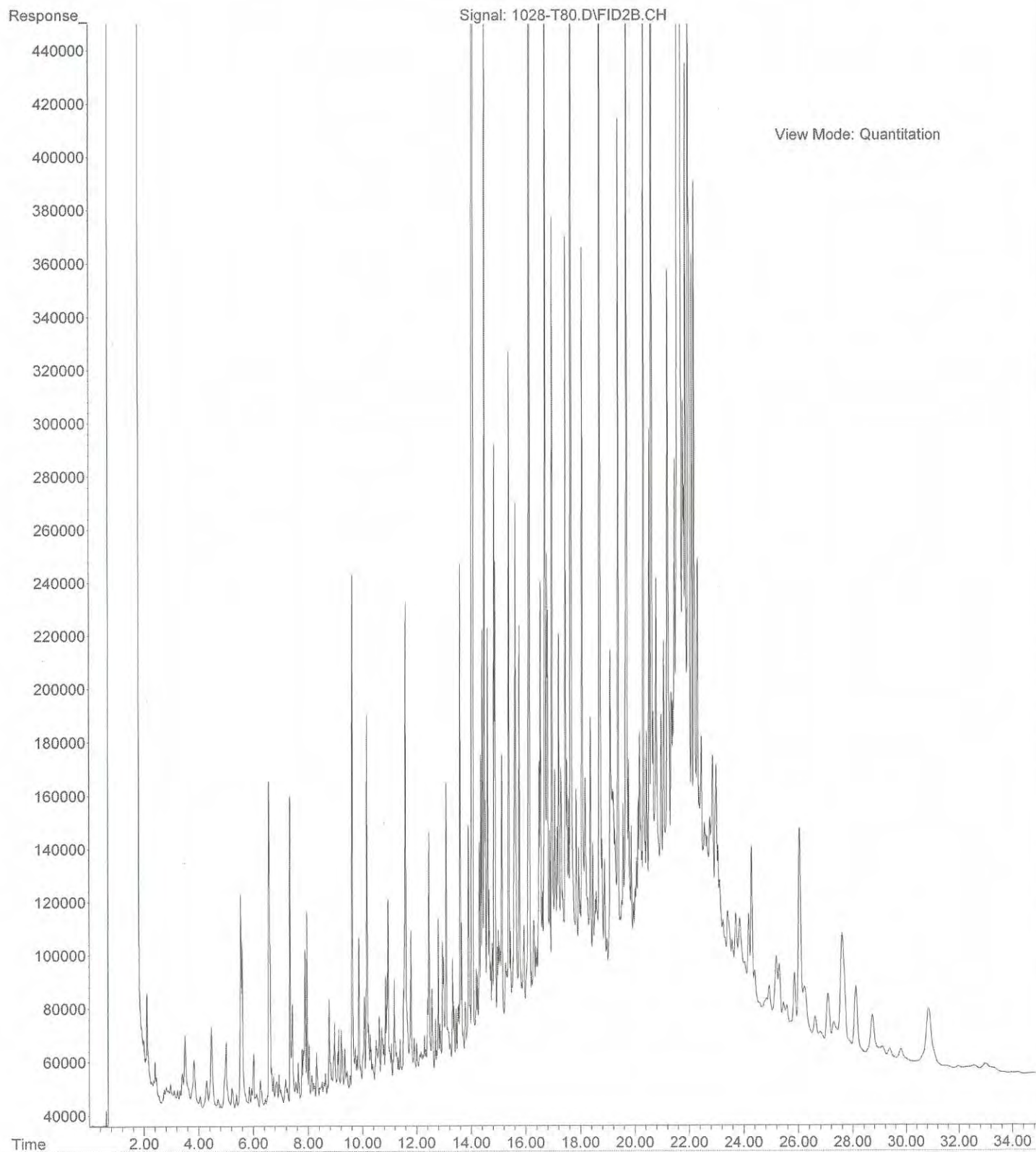
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Instrument : Teri
Sample Name: 10-339-05
Misc Info :
Vial Number: 30



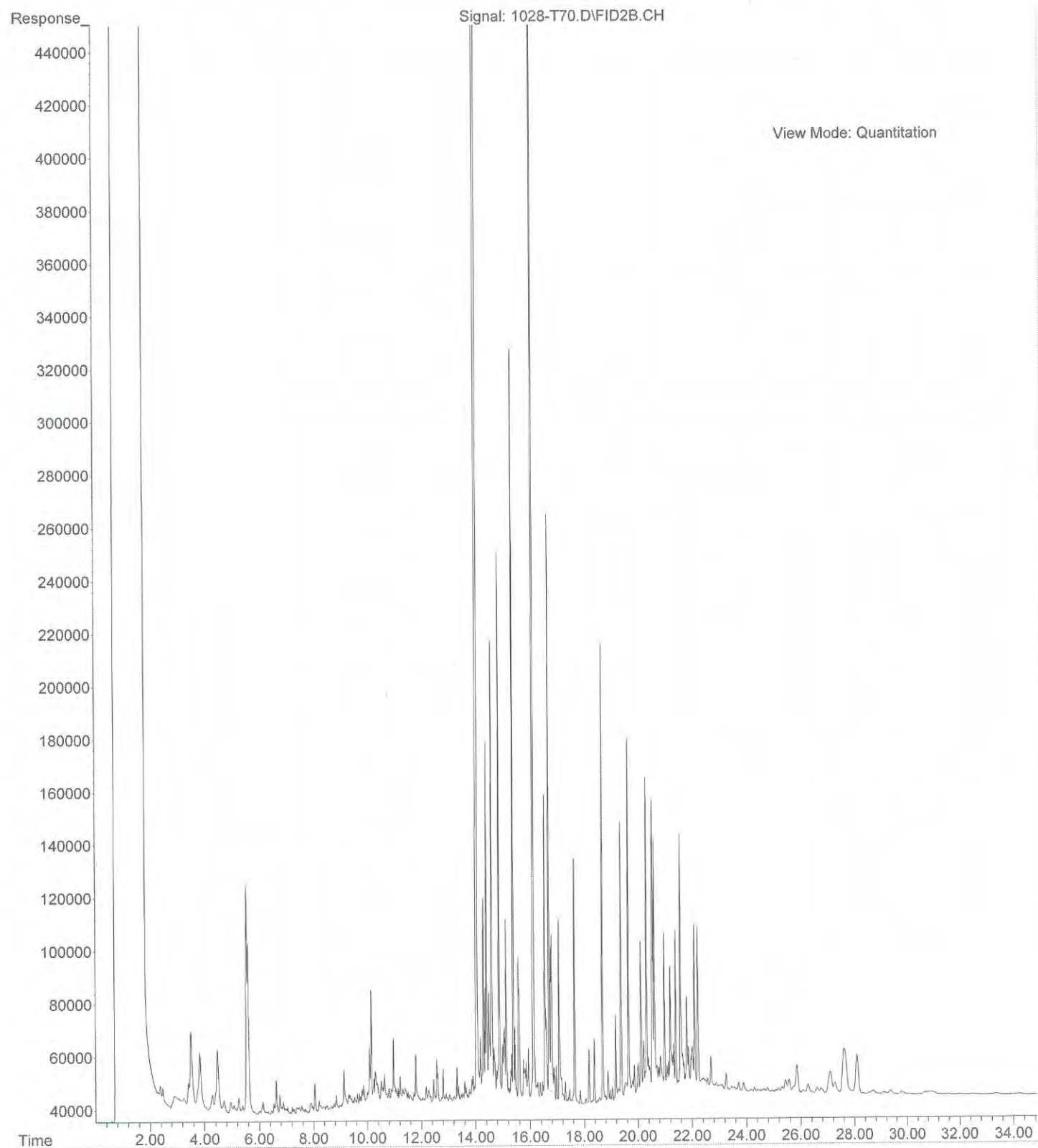
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Instrument : Teri
Sample Name: 10-339-05 ACU
Misc Info :
Vial Number: 78



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Operator : JT
Acquired : 29 Oct 2019 4:29 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-08
Misc Info :
Vial Number: 80



File :X:\DIESELS\TERI\DATA\T191028.SEC\1028-T70.D
Operator : JT
Acquired : 28 Oct 2019 21:29 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-08 ACU
Misc Info :
Vial Number: 70





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

November 13, 2019

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 1910-339B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 24, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal flourish extending to the right.

David Baumeister
Project Manager

Enclosures



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: November 13, 2019
Samples Submitted: October 24, 2019
Laboratory Reference: 1910-339B
Project: 650-031

Case Narrative

Samples were collected on October 23, 2019 and received by the laboratory on October 24, 2019. 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: November 13, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339B
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | BH01-01 | | | | | |
| Laboratory ID: | 10-339-01 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Lube Oil | 64 | 58 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 83 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|----------|----|
| Client ID: | BH01-01 | | | | | |
| Laboratory ID: | 10-339-01 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Lube Oil Range Organics | ND | 58 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 100 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | BH01-03 | | | | | |
| Laboratory ID: | 10-339-03 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Lube Oil Range Organics | ND | 59 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 77 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|----------|----|
| Client ID: | BH01-03 | | | | | |
| Laboratory ID: | 10-339-03 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Lube Oil Range Organics | ND | 59 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 90 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | BH02-01 | | | | | |
| Laboratory ID: | 10-339-04 | | | | | |
| Diesel Range Organics | ND | 45 | NWTPH-Dx | 11-5-19 | 11-5-19 | U1 |
| Lube Oil | 490 | 57 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 67 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|----------|-------|
| Client ID: | BH02-01 | | | | | |
| Laboratory ID: | 10-339-04 | | | | | |
| Diesel Range Organics | ND | 55 | NWTPH-Dx | 11-5-19 | 11-13-19 | U1,X1 |
| Lube Oil | 340 | 57 | NWTPH-Dx | 11-5-19 | 11-13-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 68 | 50-150 | | | | |



Date of Report: November 13, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339B
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | BH02-03 | | | | | |
| Laboratory ID: | 10-339-06 | | | | | |
| Diesel Range Organics | ND | 120 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Lube Oil Range Organics | 740 | 230 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>84</i> | <i>50-150</i> | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|----------|----|
| Client ID: | BH02-03 | | | | | |
| Laboratory ID: | 10-339-06 | | | | | |
| Diesel Range Organics | ND | 120 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Lube Oil Range Organics | ND | 230 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>99</i> | <i>50-150</i> | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | BH03-01 | | | | | |
| Laboratory ID: | 10-339-07 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Lube Oil | 110 | 55 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>84</i> | <i>50-150</i> | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|----------|----|
| Client ID: | BH03-01 | | | | | |
| Laboratory ID: | 10-339-07 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Lube Oil | 77 | 55 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>100</i> | <i>50-150</i> | | | | |



Date of Report: November 13, 2019
 Samples Submitted: October 24, 2019
 Laboratory Reference: 1910-339B
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1105S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 11-5-19 | 11-5-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 87 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1105S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 11-5-19 | 11-11-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 102 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|---------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 11-020-17 | | | | | | | |
| | 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 | | | | 82 | 84 | 50-150 | | |



Date of Report: November 13, 2019
Samples Submitted: October 24, 2019
Laboratory Reference: 1910-339B
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|------------------|---------------|-------------------|----------------------|
| BH01-01 | 10-339-01 | 13 | 11-5-19 |
| BH01-03 | 10-339-03 | 15 | 11-5-19 |
| BH02-01 | 10-339-04 | 11 | 11-5-19 |
| BH02-03 | 10-339-06 | 79 | 11-5-19 |
| BH03-01 | 10-339-07 | 10 | 11-5-19 |





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 methods 8260 & 8270, 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





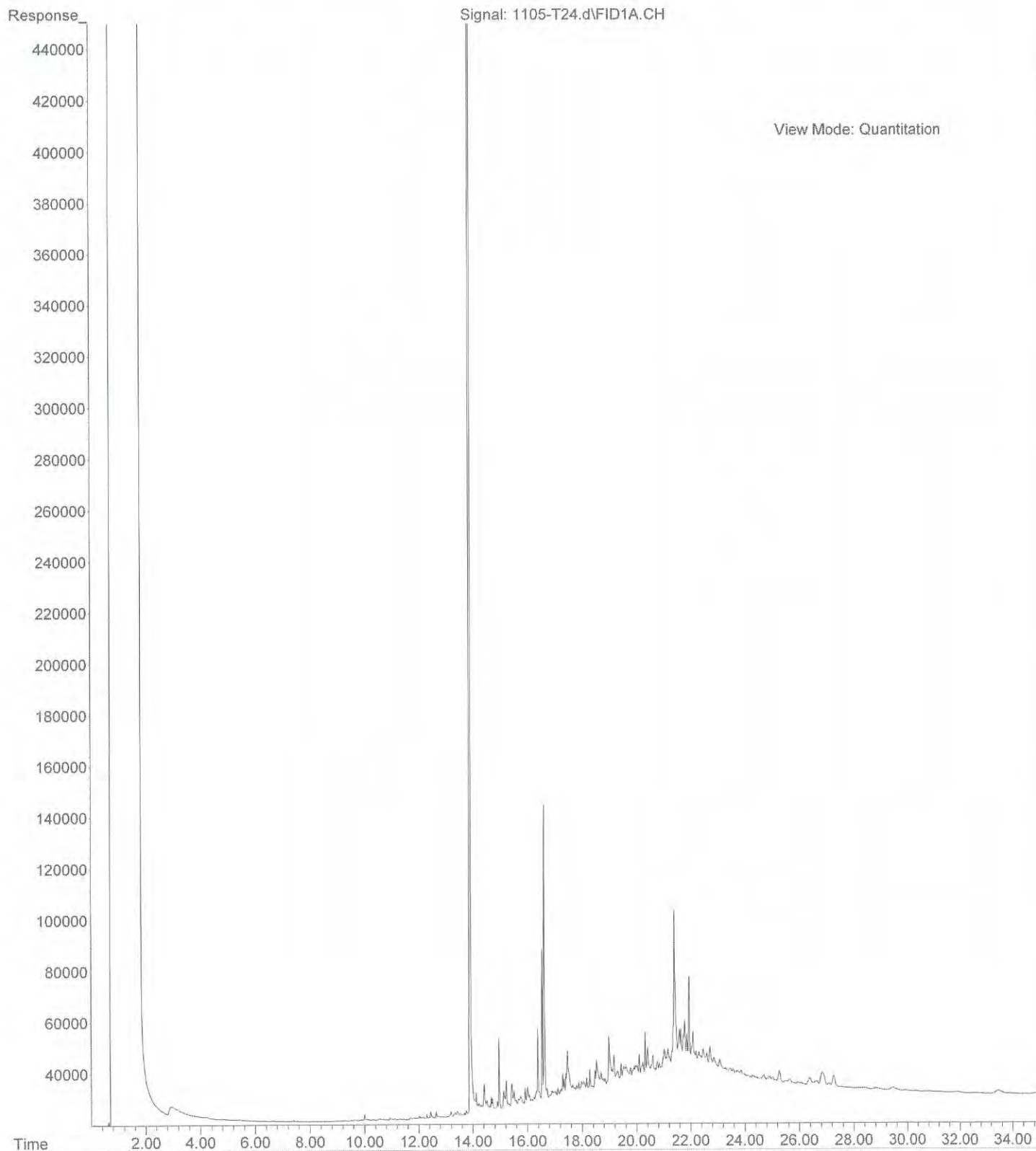
OnSite Environmental Inc.
Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

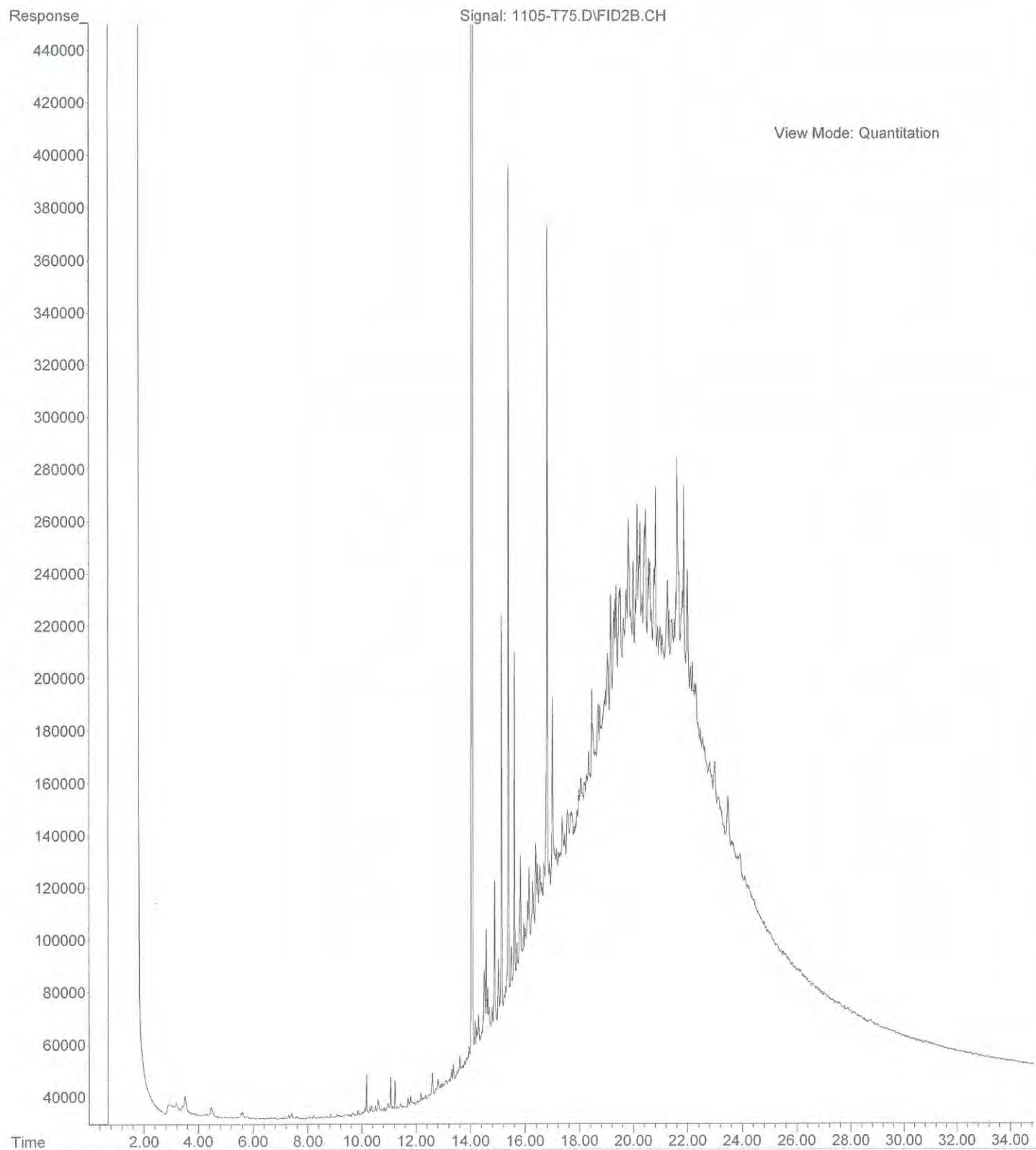
| Company: <u>Environ</u> | | Turnaround Request (in working days) | | Laboratory Number: 10-339 | | | | | | | | | | | | |
|------------------------------------|---------------------------|--|--------------|---|----------------------|--|--|--|--|--|--|--|--|--|--|--|
| Project Number: <u>650-031</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | | | | | | |
| Project Name: <u>Cumsky</u> | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | | | | | | |
| Sampled by: <u>SWB</u> | | <input type="checkbox"/> (other) | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | |
| <u>109</u> | <u>BKGRSBO1-01</u> | <u>10/29/19</u> | <u>1610</u> | <u>Soil</u> | <u>5</u> | | | | | | | | | | | |
| <u>110</u> | <u>BKGRSBO1-02</u> | <u>10/29/19</u> | <u>1627</u> | <u>Soil</u> | <u>5</u> | | | | | | | | | | | |
| <u>111</u> | <u>BKGRSBO1-03</u> | <u>10/29/19</u> | <u>1645</u> | <u>Soil</u> | <u>5</u> | | | | | | | | | | | |
| <u>112</u> | <u>BH01-GL-102319</u> | <u>10/29/19</u> | <u>1530</u> | <u>GL</u> | <u>9</u> | | | | | | | | | | | |
| <u>113</u> | <u>BH02-GL-102319</u> | <u>10/29/19</u> | <u>1640</u> | <u>GL</u> | <u>9</u> | | | | | | | | | | | |
| <u>114</u> | <u>BKGRSBO1-GL-102319</u> | <u>10/29/19</u> | <u>1900</u> | <u>GL</u> | <u>9</u> | | | | | | | | | | | |
| <u>[Signature]</u> | | | | | | | | | | | | | | | | |
| Signature | | Company | | Date | | | | | | | | | | | | |
| Relinquished | | <u>Tallia</u> | | <u>10/29/19 1800</u> | | | | | | | | | | | | |
| Received | | <u>Maura Cressell</u> | | <u>10/29/19 1200</u> | | | | | | | | | | | | |
| 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"/> | | | | | | | | | | | | |

Run selected & samples with and without silica gel clean up

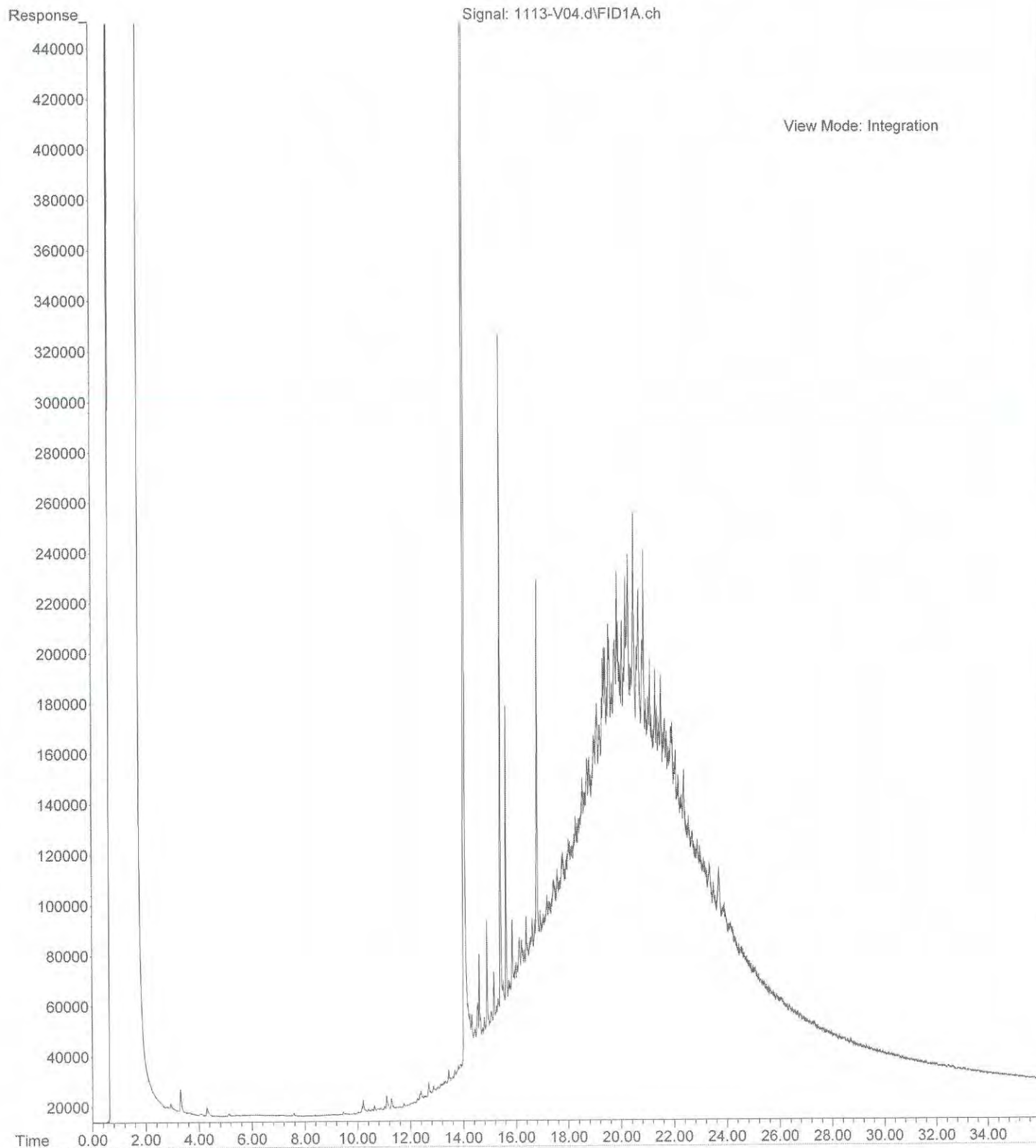
File :X:\DIESELS\TERI\DATA\T191105\1105-T24.d
Operator : JT
Acquired : 06 Nov 2019 0:50 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-01
Misc Info :
Vial Number: 24



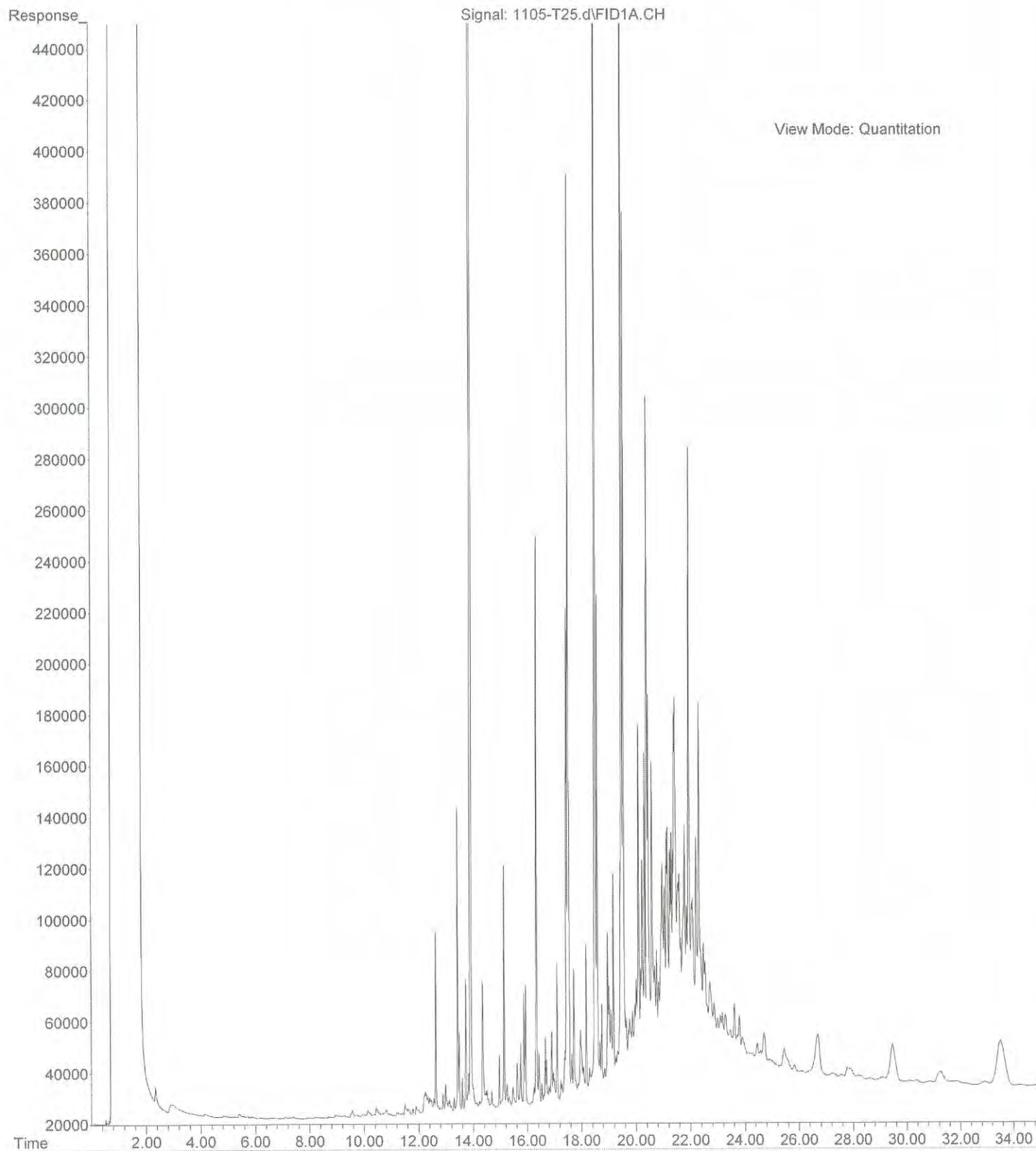
File :X:\DIESELS\TERI\DATA\T191105.SEC\1105-T75.D
Operator : JT
Acquired : 06 Nov 2019 1:32 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-04
Misc Info :
Vial Number: 75



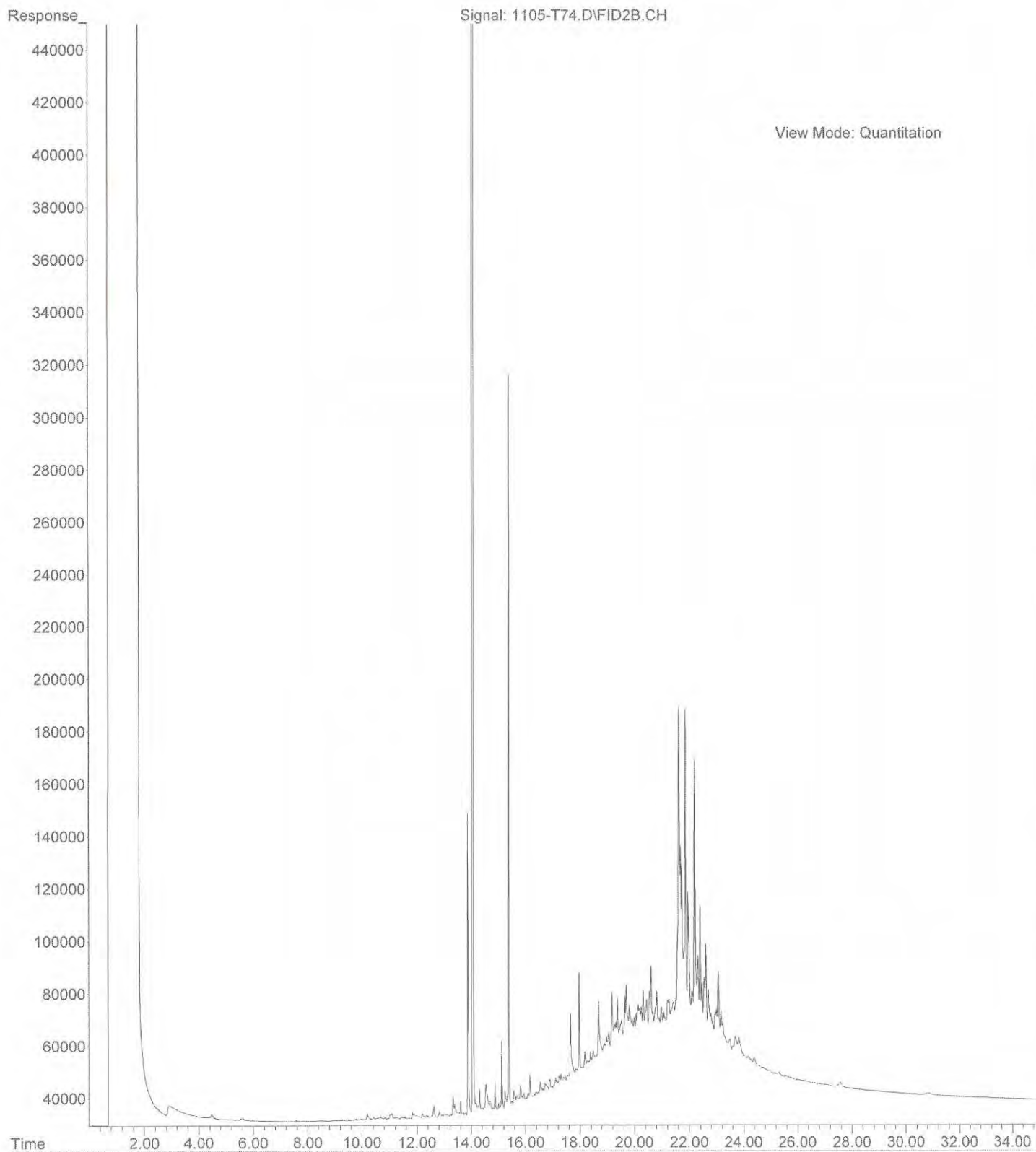
File :X:\DIESELS\VIGO\DATA\V191113\1113-V04.d
Operator : JT
Acquired : 13 Nov 2019 13:21 using AcqMethod V180601F.M
Instrument : Vigo
Sample Name: 10-339-04 RECON ACU
Misc Info :
Vial Number: 4



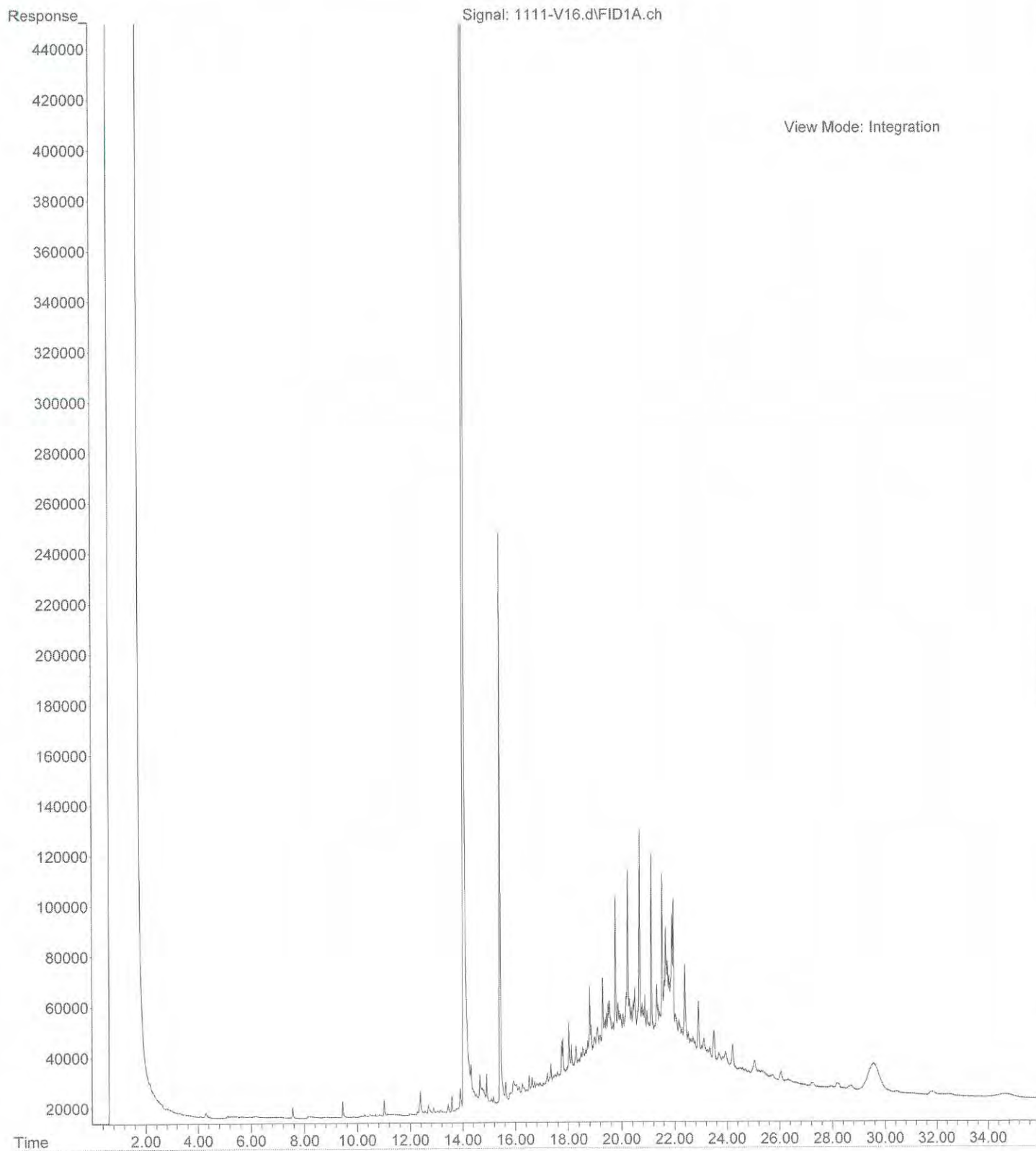
File :X:\DIESELS\TERI\DATA\T191105\1105-T25.d
Operator : JT
Acquired : 06 Nov 2019 1:32 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-06
Misc Info :
Vial Number: 25



File :X:\DIESELS\TERI\DATA\T191105.SEC\1105-T74.D
Operator : JT
Acquired : 06 Nov 2019 0:50 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 10-339-07
Misc Info :
Vial Number: 74



File :X:\DIESELS\VIGO\DATA\V191111\1111-V16.d
Operator : JT
Acquired : 11 Nov 2019 18:23 using AcqMethod V180601F.M
Instrument : Vigo
Sample Name: 10-339-07 ACU
Misc Info :
Vial Number: 16





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

November 14, 2019

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 1911-073

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on November 7, 2019.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: November 14, 2019
Samples Submitted: November 7, 2019
Laboratory Reference: 1911-073
Project: 650-031

Case Narrative

Samples were collected on November 6, 2019 and received by the laboratory on November 7, 2019. 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: November 14, 2019
 Samples Submitted: November 7, 2019
 Laboratory Reference: 1911-073
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | BH04-02 | | | | | |
| Laboratory ID: | 11-073-02 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Lube Oil | 450 | 58 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 101 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | BH04-02 | | | | | |
| Laboratory ID: | 11-073-02 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Lube Oil | 270 | 58 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 113 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|----------|----------|--|
| Client ID: | BH05-02 | | | | | |
| Laboratory ID: | 11-073-04 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Lube Oil | 170 | 59 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 116 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | BH05-02 | | | | | |
| Laboratory ID: | 11-073-04 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Lube Oil | 110 | 59 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 121 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|--|
| Client ID: | BH06-02 | | | | | |
| Laboratory ID: | 11-073-06 | | | | | |
| Diesel Range Organics | ND | 32 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Lube Oil Range Organics | ND | 63 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 83 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | BH06-02 | | | | | |
| Laboratory ID: | 11-073-06 | | | | | |
| Diesel Range Organics | ND | 32 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Lube Oil Range Organics | ND | 63 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 97 | 50-150 | | | | |



Date of Report: November 14, 2019
 Samples Submitted: November 7, 2019
 Laboratory Reference: 1911-073
 Project: 650-031

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|----------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | Farallon Background | | | | | |
| Laboratory ID: | 11-073-08 | | | | | |
| Diesel Range Organics | ND | 54 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Lube Oil Range Organics | 320 | 110 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>108</i> | <i>50-150</i> | | | | |

| | | | | | | |
|-------------------------|----------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | Farallon Background | | | | | |
| Laboratory ID: | 11-073-08 | | | | | |
| Diesel Range Organics | ND | 54 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Lube Oil Range Organics | ND | 110 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | <i>131</i> | <i>50-150</i> | | | | |



Date of Report: November 14, 2019
 Samples Submitted: November 7, 2019
 Laboratory Reference: 1911-073
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1111S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 11-11-19 | 11-12-19 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 98 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1111S2 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 11-11-19 | 11-12-19 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 116 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|---------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 11-089-01 | | | | | | | |
| | 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 | | | | 103 | 104 | 50-150 | | |



Date of Report: November 14, 2019
Samples Submitted: November 7, 2019
Laboratory Reference: 1911-073
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|----------------------------|---------------|-------------------|----------------------|
| BH04-02 | 11-073-02 | 14 | 11-11-19 |
| BH05-02 | 11-073-04 | 14 | 11-11-19 |
| BH06-02 | 11-073-06 | 21 | 11-11-19 |
| Farallon Background | 11-073-08 | 54 | 11-11-19 |





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 methods 8260 & 8270, 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





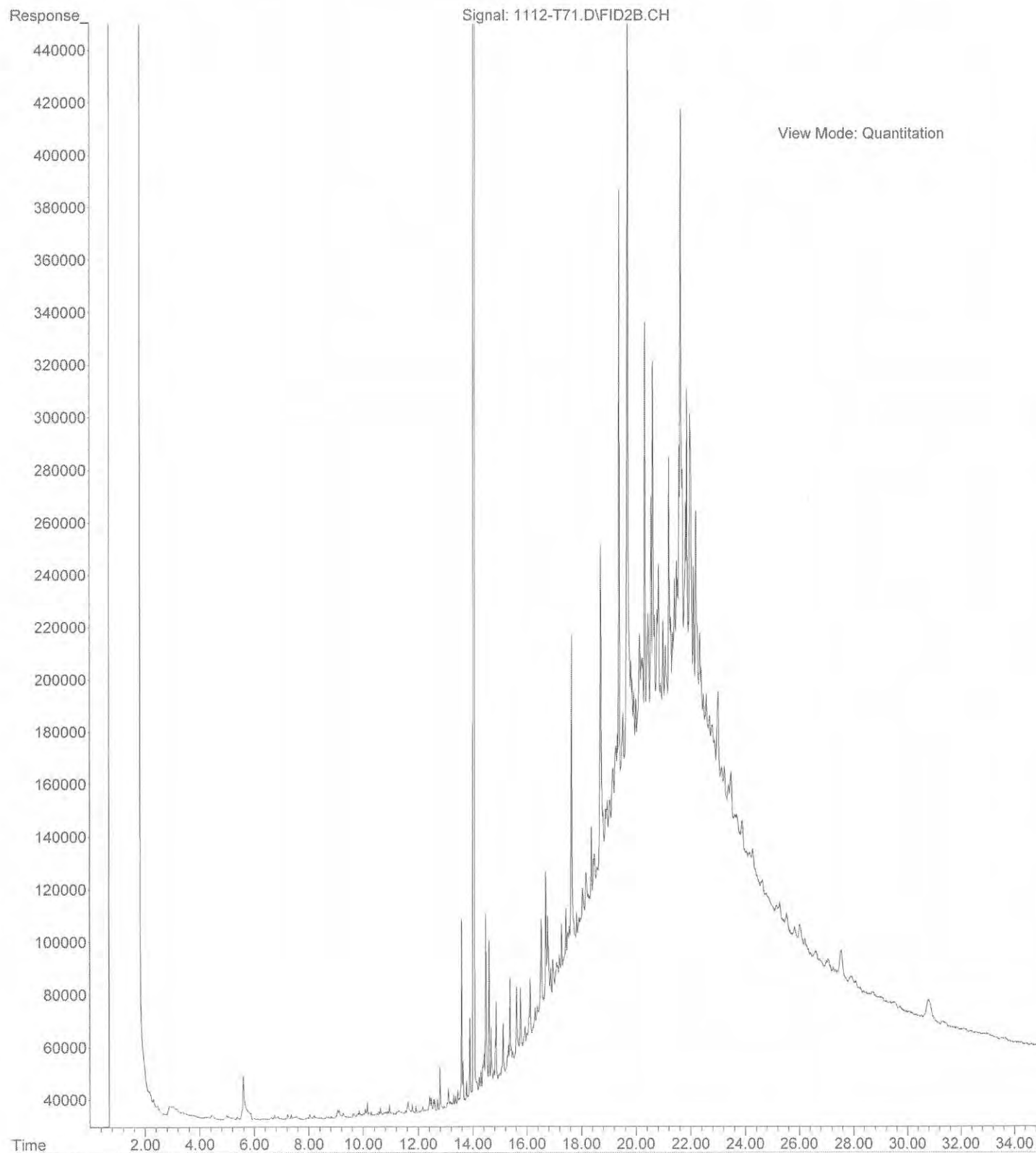
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Phone: (425) 883-3881 • www.onsite-env.com

Chain of Custody

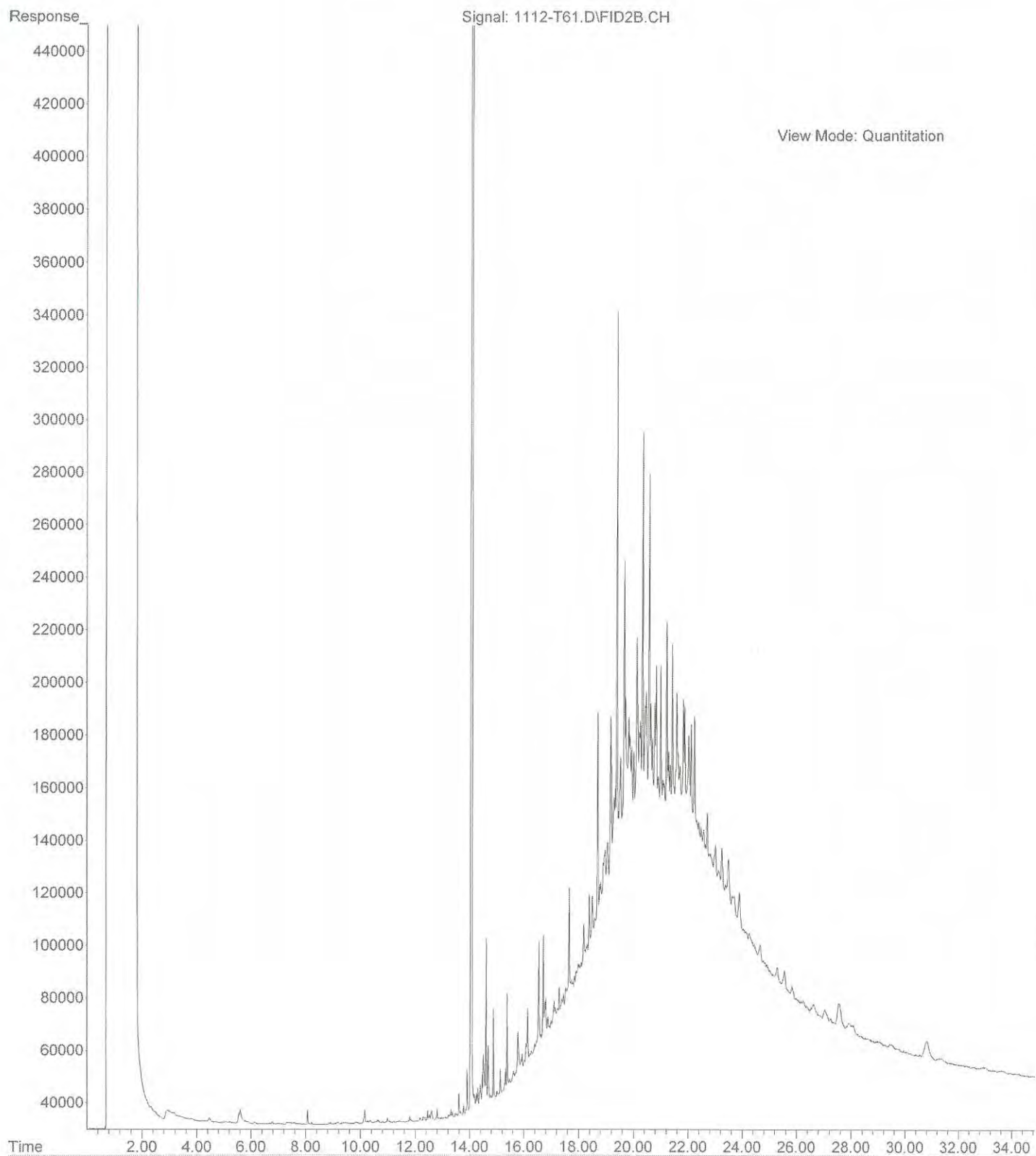
Page 1 of 1

| | | | | | | | | | | | | | | | | | | | | |
|------------------------------------|--|--|--|--|--|--|-------------|--|---|--|--|--|--|--|--|--|--|--|--|--|
| Company: <u>Fossilon</u> | | | Turnaround Request (in working days) | | Laboratory Number: 11-073 | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | <div>Analysis Requested (Check One)</div> <div><input checked="" type="checkbox"/> Standard (7 Days)</div> <div><input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days</div> <div>Sampled by: <u>C. Schmitt</u></div> <div><input type="checkbox"/> _____ (other)</div> | | | | | | | | | | | | | | | |
| Project Name: <u>Gunsby</u> | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>SWB</u> | | | | | | | | | | | | | | | | | | | | |
| Lab ID | | | Date Sampled | | Time Sampled | | Matrix | | Number of Containers | | | | | | | | | | | |
| 1 BH04-01 | | | 11/6/19 | | 1015 | | Soil | | 5 | | | | | | | | | | | |
| 2 BH04-02 | | | | | 1030 | | | | 5 | | | | | | | | | | | |
| 3 BH05-01 | | | | | 1030 | | | | 5 | | | | | | | | | | | |
| 4 BH05-02 | | | | | 1200 | | | | 5 | | | | | | | | | | | |
| 5 BH05-01 | | | | | 1310 | | | | 5 | | | | | | | | | | | |
| 6 BH06-02 | | | | | 1350 | | Soil | | 5 | | | | | | | | | | | |
| 7 BH04-Grass | | | | | 1048 | | Grass | | 1 | | | | | | | | | | | |
| 8 Farallon Background | | | | | 1430 | | Soil | | 5 | | | | | | | | | | | |
| Signature | | | Company | | Date | | Time | | Comments/Special Instructions | | | | | | | | | | | |
| <u>[Signature]</u> | | | <u>Fossilon</u> | | <u>11/6/19</u> | | <u>1635</u> | | <u>X Added 11/8/19. DB (STN)</u> | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | |
| 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"/> | | | | | | | | | | | |

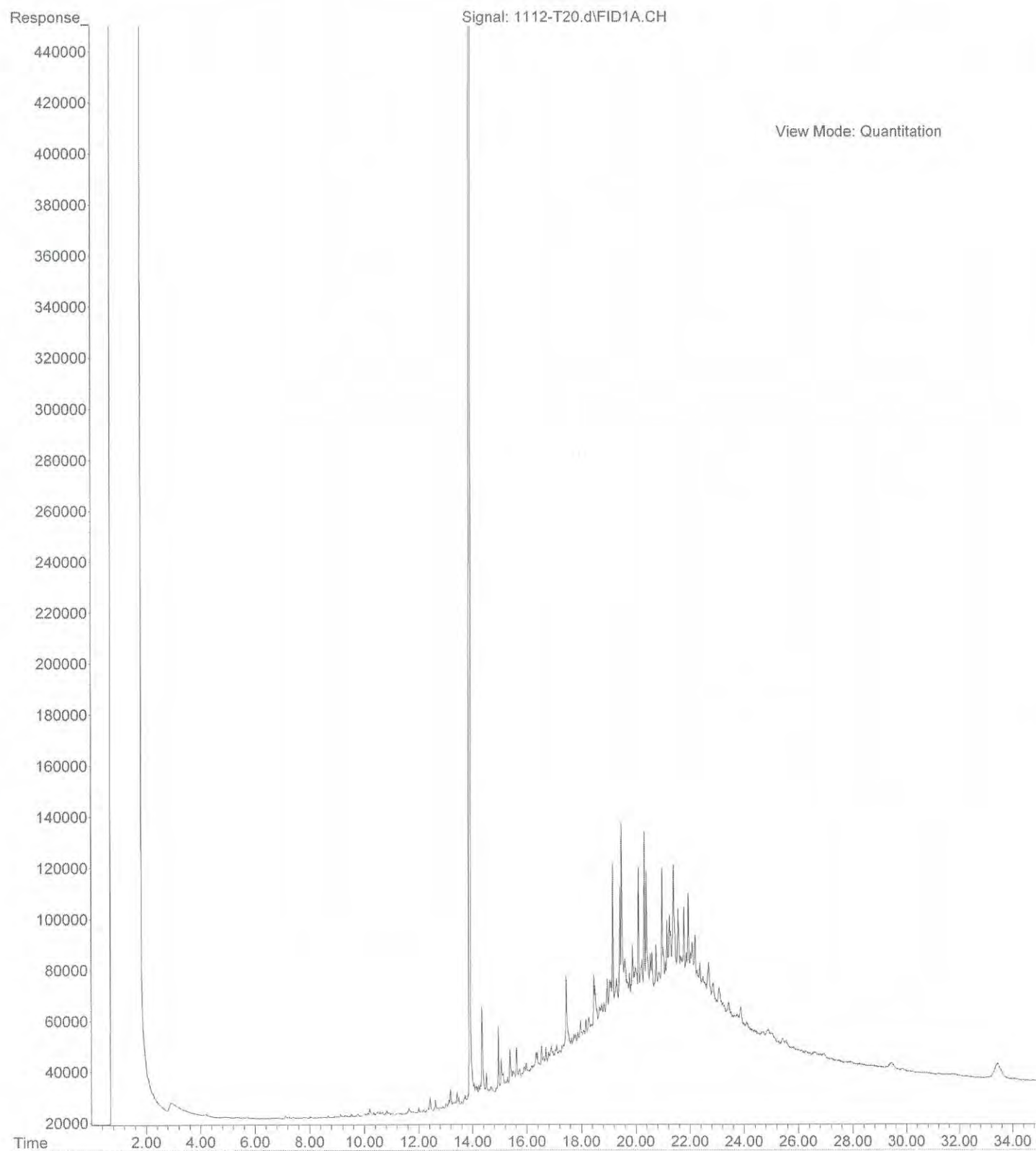
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Acquired : 12 Nov 2019 22:12 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 11-073-02
Misc Info :
Vial Number: 71



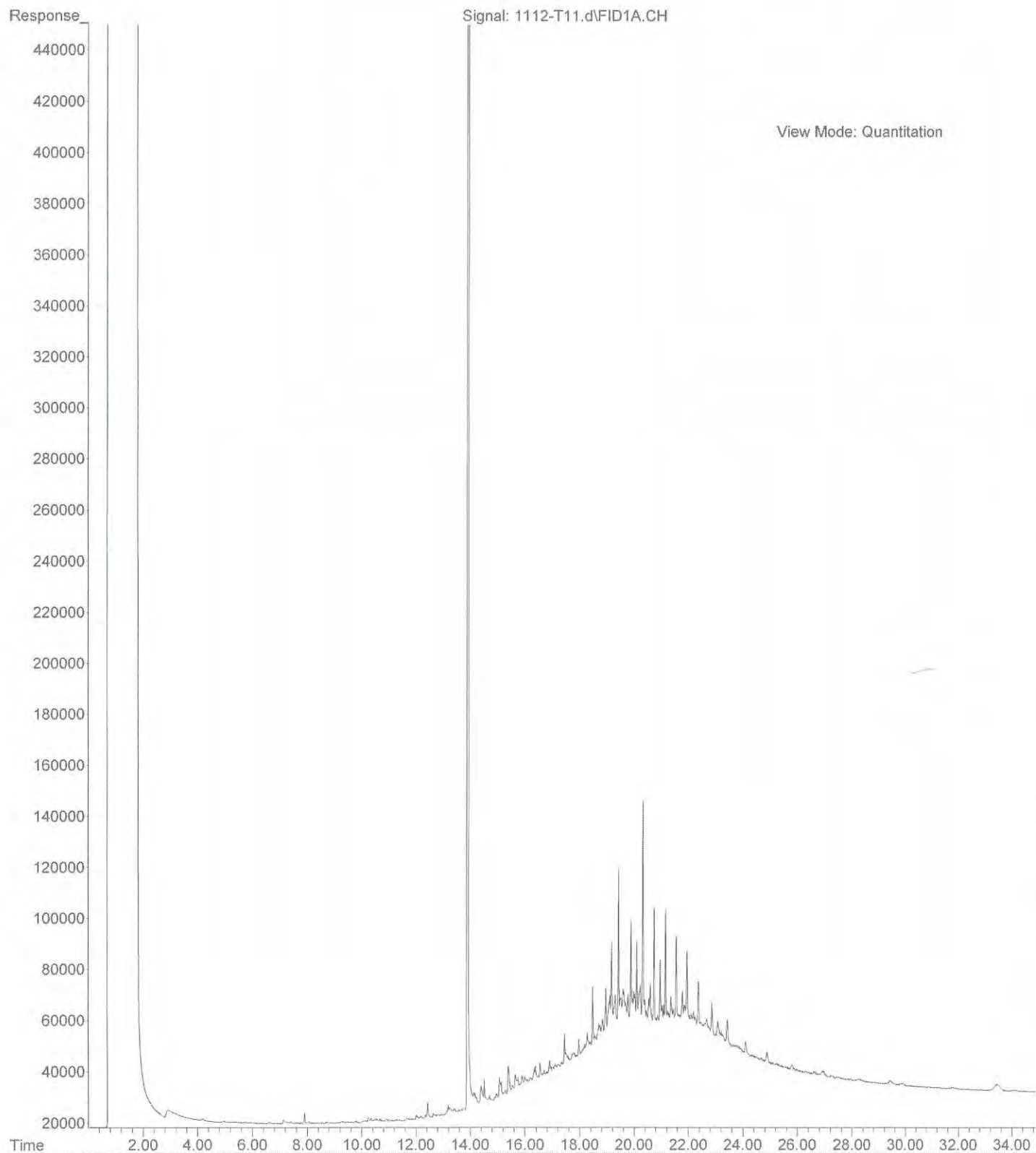
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Operator : JT
Acquired : 12 Nov 2019 14:59 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 11-073-02 ACU
Misc Info :
Vial Number: 61



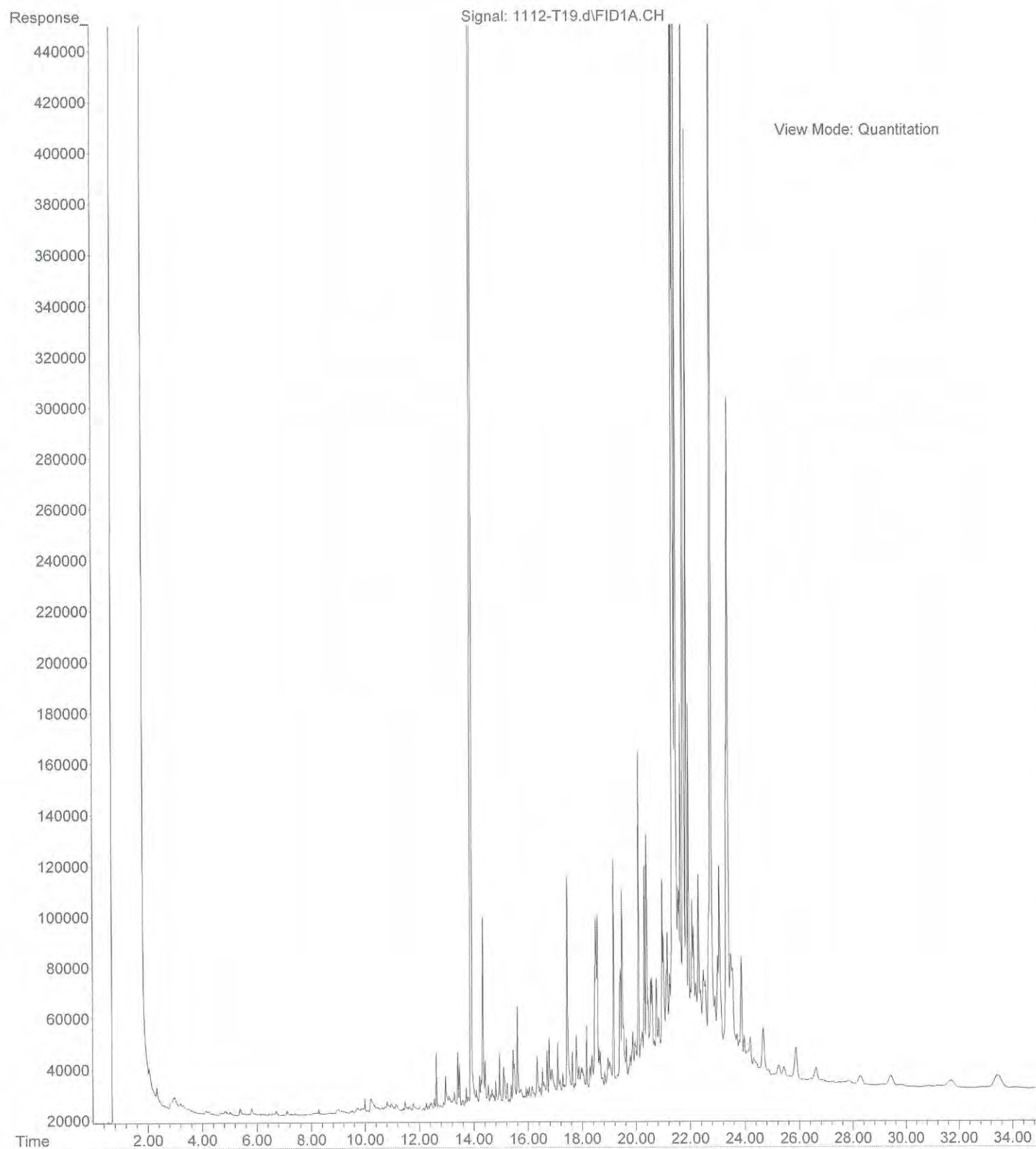
File :X:\DIESELS\TERI\DATA\T191112\1112-T20.d
Operator : JT
Acquired : 12 Nov 2019 21:29 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 11-073-04
Misc Info :
Vial Number: 20



File :X:\DIESELS\TERI\DATA\T191112\1112-T11.d
Operator : JT
Acquired : 12 Nov 2019 14:59 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 11-073-04 ACU
Misc Info :
Vial Number: 11



File :X:\DIESELS\TERI\DATA\T191112\1112-T19.d
Operator : JT
Acquired : 12 Nov 2019 20:47 using AcqMethod T190827F.M
Instrument : Teri
Sample Name: 11-073-08
Misc Info :
Vial Number: 19





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

August 12, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2007-331

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: August 12, 2020
Samples Submitted: July 31, 2020
Laboratory Reference: 2007-331
Project: 650-031

Case Narrative

Samples were collected on July 30 and 31, 2020 and received by the laboratory on July 31, 2020. They were maintained at the laboratory at a temperature of 2°C to 6°C.

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

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

Volatiles EPA 8260D Analysis

The value reported for Acetone in sample FB-08-5.5 exceeds the calibration range and is therefore an estimate. The sample was re-analyzed at the lowest possible dilution allowed by Method 5035A with non-detect results for Acetone.

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



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| Client ID: | FB-01-7.0 | | | | | |
| Laboratory ID: | 07-331-05 | | | | | |
| Diesel Range Organics | ND | 59 | NWTPH-Dx | 8-6-20 | 8-6-20 | X1 |
| Lube Oil Range Organics | ND | 120 | NWTPH-Dx | 8-6-20 | 8-6-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 95 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|----|
| Client ID: | FB-02-5.5 | | | | | |
| Laboratory ID: | 07-331-08 | | | | | |
| Diesel Range Organics | ND | 32 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 80 | 63 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 82 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|----|
| Client ID: | FB-03-6.0 | | | | | |
| Laboratory ID: | 07-331-10 | | | | | |
| Diesel Range Organics | ND | 72 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 230 | 140 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 100 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------|----------------|----------|--------|---------|------|
| Client ID: | FMW-02-3.0 | | | | | |
| Laboratory ID: | 07-331-12 | | | | | |
| Diesel Range Organics | 60 | 28 | NWTPH-Dx | 8-6-20 | 8-12-20 | N,X1 |
| Lube Oil Range Organics | 260 | 57 | NWTPH-Dx | 8-6-20 | 8-12-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 104 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|----|
| Client ID: | FB-04-1.0 | | | | | |
| Laboratory ID: | 07-331-15 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 8-6-20 | 8-12-20 | X1 |
| Lube Oil Range Organics | 65 | 58 | NWTPH-Dx | 8-6-20 | 8-12-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 111 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|----|
| Client ID: | FB-05-3.0 | | | | | |
| Laboratory ID: | 07-331-19 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 61 | 56 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 102 | 50-150 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| Client ID: | FB-06-6.0 | | | | | |
| Laboratory ID: | 07-331-23 | | | | | |
| Diesel Range Organics | ND | 120 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 340 | 230 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 96 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------|----------------|----------|--------|---------|----|
| Client ID: | FMW-03-5.0 | | | | | |
| Laboratory ID: | 07-331-25 | | | | | |
| Diesel Range Organics | ND | 100 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 210 | 210 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 110 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|------|
| Client ID: | FB-07-5.0 | | | | | |
| Laboratory ID: | 07-331-29 | | | | | |
| Diesel Range Organics | 41 | 32 | NWTPH-Dx | 8-6-20 | 8-11-20 | N,X1 |
| Lube Oil Range Organics | 160 | 65 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 105 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|----|
| Client ID: | FB-08-5.5 | | | | | |
| Laboratory ID: | 07-331-32 | | | | | |
| Diesel Range Organics | ND | 99 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | 260 | 200 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 96 | 50-150 | | | | |

| | | | | | | |
|-------------------------|------------------|----------------|----------|--------|---------|------|
| Client ID: | FB-09-5.0 | | | | | |
| Laboratory ID: | 07-331-35 | | | | | |
| Diesel Range Organics | 34 | 30 | NWTPH-Dx | 8-6-20 | 8-11-20 | N,X1 |
| Lube Oil Range Organics | 88 | 59 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 105 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------|----------------|----------|--------|---------|------|
| Client ID: | FMW-04-6.0 | | | | | |
| Laboratory ID: | 07-331-37 | | | | | |
| Diesel Range Organics | 41 | 34 | NWTPH-Dx | 8-6-20 | 8-11-20 | N,X1 |
| Lube Oil Range Organics | 120 | 67 | NWTPH-Dx | 8-6-20 | 8-11-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 104 | 50-150 | | | | |



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: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0806S1 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 8-6-20 | 8-6-20 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 8-6-20 | 8-6-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 111 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 08-028-02 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Surrogate: | | | | | | | | |
| o-Terphenyl | | | | 95 | 105 | 50-150 | | |
| Laboratory ID: | SB0806S1 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Fuel #2 | 121 | 108 | NA | NA | NA | 11 | NA | X1 |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Surrogate: | | | | | | | | |
| o-Terphenyl | | | | 111 | 105 | 50-150 | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|--------|-----------|---------------|---------------|-------|
| Client ID: | FB-07-5.0 | | | | | |
| Laboratory ID: | 07-331-29 | | | | | |
| Dichlorodifluoromethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloromethane | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Chloride | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromomethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroethane | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichlorofluoromethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Acetone | 1.0 | 0.021 | EPA 8260D | 8-5-20 | 8-5-20 | Y |
| Iodomethane | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Disulfide | 0.024 | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methylene Chloride | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl t-Butyl Ether | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Acetate | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2,2-Dichloropropane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Butanone | 0.23 | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromochloromethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroform | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1-Trichloroethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Tetrachloride | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloropropene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Benzene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloroethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichloroethene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloropropane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromomethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromodichloromethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl Isobutyl Ketone | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Toluene | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |



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: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|-------------------------|-----------------------|-----------|---------------|---------------|-------|
| Client ID: | FB-07-5.0 | | | | | |
| Laboratory ID: | 07-331-29 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Tetrachloroethene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichloropropane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Hexanone | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromochloromethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromoethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chlorobenzene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Ethylbenzene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| m,p-Xylene | ND | 0.0041 | EPA 8260D | 8-5-20 | 8-5-20 | |
| o-Xylene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Styrene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromoform | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Isopropylbenzene | ND | 0.0021 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichloropropane | ND | 0.097 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Propylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chlorotoluene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 4-Chlorotoluene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| tert-Butylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| sec-Butylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichlorobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| p-Isopropyltoluene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,4-Dichlorobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichlorobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Butylbenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.37 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Hexachlorobutadiene | ND | 0.37 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Naphthalene | ND | 0.37 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.074 | EPA 8260D | 8-6-20 | 8-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>Dibromofluoromethane</i> | <i>109</i> | <i>74-131</i> | | | | |
| <i>Toluene-d8</i> | <i>97</i> | <i>78-128</i> | | | | |
| <i>4-Bromofluorobenzene</i> | <i>77</i> | <i>71-130</i> | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|--------|-----------|---------------|---------------|-------|
| Client ID: | FB-08-5.5 | | | | | |
| Laboratory ID: | 07-331-32 | | | | | |
| Dichlorodifluoromethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloromethane | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Chloride | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromomethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroethane | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichlorofluoromethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Acetone | 4.5 | 0.068 | EPA 8260D | 8-5-20 | 8-5-20 | Y,E |
| Iodomethane | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Disulfide | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methylene Chloride | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl t-Butyl Ether | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Acetate | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2,2-Dichloropropane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Butanone | 0.94 | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromochloromethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroform | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1-Trichloroethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Tetrachloride | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloropropene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Benzene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloroethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichloroethene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloropropane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromomethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromodichloromethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl Isobutyl Ketone | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Toluene | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|-------------------------|-----------------------|-----------|---------------|---------------|-------|
| Client ID: | FB-08-5.5 | | | | | |
| Laboratory ID: | 07-331-32 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Tetrachloroethene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichloropropane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Hexanone | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromochloromethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromoethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chlorobenzene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Ethylbenzene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| m,p-Xylene | ND | 0.014 | EPA 8260D | 8-5-20 | 8-5-20 | |
| o-Xylene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Styrene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromoform | ND | 0.034 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Isopropylbenzene | ND | 0.0068 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichloropropane | ND | 0.45 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Propylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chlorotoluene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 4-Chlorotoluene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| tert-Butylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| sec-Butylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichlorobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| p-Isopropyltoluene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,4-Dichlorobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichlorobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Butylbenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.7 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Hexachlorobutadiene | ND | 1.7 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Naphthalene | ND | 1.7 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.34 | EPA 8260D | 8-6-20 | 8-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>Dibromofluoromethane</i> | <i>113</i> | <i>74-131</i> | | | | |
| <i>Toluene-d8</i> | <i>89</i> | <i>78-128</i> | | | | |
| <i>4-Bromofluorobenzene</i> | <i>100</i> | <i>71-130</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: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

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Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|--------|-----------|---------------|---------------|-------|
| Client ID: | FB-09-5.0 | | | | | |
| Laboratory ID: | 07-331-35 | | | | | |
| Dichlorodifluoromethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloromethane | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Chloride | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromomethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroethane | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichlorofluoromethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Acetone | 0.22 | 0.012 | EPA 8260D | 8-5-20 | 8-5-20 | Y |
| Iodomethane | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Disulfide | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methylene Chloride | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl t-Butyl Ether | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Acetate | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2,2-Dichloropropane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Butanone | 0.031 | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromochloromethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroform | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1-Trichloroethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Tetrachloride | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloropropene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Benzene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloroethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichloroethene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloropropane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromomethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromodichloromethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl Isobutyl Ketone | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Toluene | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |



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Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|-------------------------|-----------------------|-----------|---------------|---------------|-------|
| Client ID: | FB-09-5.0 | | | | | |
| Laboratory ID: | 07-331-35 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Tetrachloroethene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichloropropane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Hexanone | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromochloromethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromoethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chlorobenzene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Ethylbenzene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| m,p-Xylene | ND | 0.0024 | EPA 8260D | 8-5-20 | 8-5-20 | |
| o-Xylene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Styrene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromoform | ND | 0.0061 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Isopropylbenzene | ND | 0.0012 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichloropropane | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Propylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chlorotoluene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 4-Chlorotoluene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| tert-Butylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| sec-Butylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichlorobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| p-Isopropyltoluene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,4-Dichlorobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichlorobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Butylbenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.31 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Hexachlorobutadiene | ND | 0.31 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Naphthalene | ND | 0.31 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.062 | EPA 8260D | 8-6-20 | 8-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>Dibromofluoromethane</i> | <i>110</i> | <i>74-131</i> | | | | |
| <i>Toluene-d8</i> | <i>100</i> | <i>78-128</i> | | | | |
| <i>4-Bromofluorobenzene</i> | <i>81</i> | <i>71-130</i> | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

page 1 of 2

Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|-------------------|--------|-----------|---------------|---------------|-------|
| Client ID: | FMW-04-6.0 | | | | | |
| Laboratory ID: | 07-331-37 | | | | | |
| Dichlorodifluoromethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloromethane | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Chloride | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromomethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroethane | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichlorofluoromethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Acetone | 0.50 | 0.017 | EPA 8260D | 8-5-20 | 8-5-20 | Y |
| Iodomethane | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Disulfide | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methylene Chloride | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl t-Butyl Ether | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Acetate | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2,2-Dichloropropane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Butanone | 0.049 | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromochloromethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroform | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1-Trichloroethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Tetrachloride | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloropropene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Benzene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloroethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichloroethene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloropropane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromomethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromodichloromethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl Isobutyl Ketone | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Toluene | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |



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: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

VOLATILE ORGANICS EPA 8260D
 page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|-------------------------|-----------------------|-----------|---------------|---------------|-------|
| Client ID: | FMW-04-6.0 | | | | | |
| Laboratory ID: | 07-331-37 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Tetrachloroethene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichloropropane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Hexanone | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromochloromethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromoethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chlorobenzene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Ethylbenzene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| m,p-Xylene | ND | 0.0033 | EPA 8260D | 8-5-20 | 8-5-20 | |
| o-Xylene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Styrene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromoform | ND | 0.0084 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Isopropylbenzene | ND | 0.0017 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichloropropane | ND | 0.11 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Propylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chlorotoluene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 4-Chlorotoluene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| tert-Butylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| sec-Butylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichlorobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| p-Isopropyltoluene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,4-Dichlorobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichlorobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Butylbenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.41 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Hexachlorobutadiene | ND | 0.41 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Naphthalene | ND | 0.41 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.081 | EPA 8260D | 8-6-20 | 8-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>Dibromofluoromethane</i> | <i>111</i> | <i>74-131</i> | | | | |
| <i>Toluene-d8</i> | <i>101</i> | <i>78-128</i> | | | | |
| <i>4-Bromofluorobenzene</i> | <i>85</i> | <i>71-130</i> | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|----------|--------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0805S1 | | | | | |
| Dichlorodifluoromethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloromethane | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Chloride | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromomethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroethane | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichlorofluoromethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Acetone | ND | 0.010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Iodomethane | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Disulfide | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methylene Chloride | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl t-Butyl Ether | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Vinyl Acetate | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2,2-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Butanone | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromochloromethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chloroform | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1-Trichloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Carbon Tetrachloride | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Benzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Trichloroethene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromomethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromodichloromethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Methyl Isobutyl Ketone | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Toluene | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|----------------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0805S1 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Tetrachloroethene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Hexanone | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Dibromochloromethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromoethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Chlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Ethylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| m,p-Xylene | ND | 0.0020 | EPA 8260D | 8-5-20 | 8-5-20 | |
| o-Xylene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Styrene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromoform | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Isopropylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Bromobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2,3-Trichloropropane | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| n-Propylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 2-Chlorotoluene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 4-Chlorotoluene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| tert-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| sec-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,3-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| p-Isopropyltoluene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,4-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| n-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Hexachlorobutadiene | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Naphthalene | ND | 0.0050 | EPA 8260D | 8-5-20 | 8-5-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.0010 | EPA 8260D | 8-5-20 | 8-5-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| Dibromofluoromethane | 112 | 74-131 | | | | |
| Toluene-d8 | 103 | 78-128 | | | | |
| 4-Bromofluorobenzene | 103 | 71-130 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Soil
 Units: mg/kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|----------|--------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0806S3 | | | | | |
| Dichlorodifluoromethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Chloromethane | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Vinyl Chloride | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Bromomethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Chloroethane | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Trichlorofluoromethane | ND | 0.0016 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Acetone | ND | 0.010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Iodomethane | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Carbon Disulfide | ND | 0.0013 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Methylene Chloride | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Methyl t-Butyl Ether | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1-Dichloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Vinyl Acetate | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2,2-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Butanone | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Bromochloromethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Chloroform | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,1-Trichloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Carbon Tetrachloride | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Benzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Trichloroethene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Dibromomethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Bromodichloromethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Methyl Isobutyl Ketone | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Toluene | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |



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

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Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|----------------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0806S3 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Tetrachloroethene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichloropropane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Hexanone | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Dibromochloromethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromoethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Chlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Ethylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| m,p-Xylene | ND | 0.0020 | EPA 8260D | 8-6-20 | 8-6-20 | |
| o-Xylene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Styrene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Bromoform | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Isopropylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Bromobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichloropropane | ND | 0.0013 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Propylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 2-Chlorotoluene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 4-Chlorotoluene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| tert-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| sec-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,3-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| p-Isopropyltoluene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,4-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dichlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| n-Butylbenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Hexachlorobutadiene | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Naphthalene | ND | 0.0050 | EPA 8260D | 8-6-20 | 8-6-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.0010 | EPA 8260D | 8-6-20 | 8-6-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| Dibromofluoromethane | 116 | 74-131 | | | | |
| Toluene-d8 | 101 | 78-128 | | | | |
| 4-Bromofluorobenzene | 101 | 71-130 | | | | |



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: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/kg

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|----------------------|----------|--------|-------------|--------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0805S1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| 1,1-Dichloroethene | 0.0621 | 0.0630 | 0.0500 | 0.0500 | 124 | 126 | 55-126 | 1 | 17 | |
| Benzene | 0.0531 | 0.0530 | 0.0500 | 0.0500 | 106 | 106 | 65-121 | 0 | 16 | |
| Trichloroethene | 0.0509 | 0.0516 | 0.0500 | 0.0500 | 102 | 103 | 74-126 | 1 | 16 | |
| Toluene | 0.0472 | 0.0481 | 0.0500 | 0.0500 | 94 | 96 | 71-121 | 2 | 16 | |
| Chlorobenzene | 0.0451 | 0.0452 | 0.0500 | 0.0500 | 90 | 90 | 72-123 | 0 | 15 | |
| Surrogate: | | | | | | | | | | |
| Dibromofluoromethane | | | | | 108 | 112 | 74-131 | | | |
| Toluene-d8 | | | | | 101 | 102 | 78-128 | | | |
| 4-Bromofluorobenzene | | | | | 102 | 102 | 71-130 | | | |
| Laboratory ID: | SB0806S1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| 1,1-Dichloroethene | 0.0445 | 0.0524 | 0.0500 | 0.0500 | 89 | 105 | 55-126 | 16 | 17 | |
| Benzene | 0.0471 | 0.0465 | 0.0500 | 0.0500 | 94 | 93 | 65-121 | 1 | 16 | |
| Trichloroethene | 0.0474 | 0.0435 | 0.0500 | 0.0500 | 95 | 87 | 74-126 | 9 | 16 | |
| Toluene | 0.0450 | 0.0405 | 0.0500 | 0.0500 | 90 | 81 | 71-121 | 11 | 16 | |
| Chlorobenzene | 0.0438 | 0.0434 | 0.0500 | 0.0500 | 88 | 87 | 72-123 | 1 | 15 | |
| Surrogate: | | | | | | | | | | |
| Dibromofluoromethane | | | | | 107 | 107 | 74-131 | | | |
| Toluene-d8 | | | | | 109 | 99 | 78-128 | | | |
| 4-Bromofluorobenzene | | | | | 104 | 98 | 71-130 | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-01-7.0 | | | | |
| Laboratory ID: | | 07-331-05 | | | | |
| Naphthalene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.016 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 61 | 46 - 113 | | | | |
| Pyrene-d10 | 63 | 45 - 114 | | | | |
| Terphenyl-d14 | 64 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-02-5.5 | | | | | |
| Laboratory ID: | 07-331-08 | | | | | |
| Naphthalene | 0.17 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| 2-Methylnaphthalene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluorene | 0.025 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Phenanthrene | 0.044 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Anthracene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluoranthene | 0.040 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Pyrene | 0.033 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Chrysene | 0.028 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[b]fluoranthene | 0.037 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.019 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | 0.019 | 0.018 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 58 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 71 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-03-6.0 | | | | | |
| Laboratory ID: | 07-331-10 | | | | | |
| Naphthalene | 2.1 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | 0.25 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | 0.18 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | 0.12 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | 0.074 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.17 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | 0.028 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | 0.12 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | 0.082 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | 0.037 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | 0.042 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | 0.044 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | 0.022 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.023 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | 0.023 | 0.019 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>49</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>63</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>67</i> | <i>49 - 121</i> | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|--------------|-------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-02-3.0 | | | | |
| Laboratory ID: | | 07-331-12 | | | | |
| Naphthalene | 1.1 | 0.076 | EPA 8270E/SIM | 8-7-20 | 8-12-20 | |
| 2-Methylnaphthalene | 0.54 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| 1-Methylnaphthalene | 0.36 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthylene | 0.012 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthene | 0.70 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluorene | 1.1 | 0.076 | EPA 8270E/SIM | 8-7-20 | 8-12-20 | |
| Phenanthrene | 2.1 | 0.076 | EPA 8270E/SIM | 8-7-20 | 8-12-20 | |
| Anthracene | 0.28 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluoranthene | 0.94 | 0.076 | EPA 8270E/SIM | 8-7-20 | 8-12-20 | |
| Pyrene | 0.78 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]anthracene | 0.26 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Chrysene | 0.25 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[b]fluoranthene | 0.23 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | 0.081 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]pyrene | 0.20 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.11 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | 0.025 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | 0.11 | 0.0076 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| <i>Surrogate: Percent Recovery Control Limits</i> | | | | | | |
| 2-Fluorobiphenyl | 75 | 46 - 113 | | | | |
| Pyrene-d10 | 81 | 45 - 114 | | | | |
| Terphenyl-d14 | 79 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-04-1.0 | | | | | |
| Laboratory ID: | 07-331-15 | | | | | |
| Naphthalene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| 2-Methylnaphthalene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Acenaphthene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluorene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Phenanthrene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Anthracene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Fluoranthene | 0.0098 | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Pyrene | 0.0097 | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Chrysene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[b]fluoranthene | 0.0079 | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.0077 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 65 | 46 - 113 | | | | |
| Pyrene-d10 | 76 | 45 - 114 | | | | |
| Terphenyl-d14 | 74 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-05-3.0 | | | | | |
| Laboratory ID: | 07-331-19 | | | | | |
| Naphthalene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.0085 | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | 0.012 | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | 0.012 | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | 0.0077 | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0075 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 65 | 46 - 113 | | | | |
| Pyrene-d10 | 65 | 45 - 114 | | | | |
| Terphenyl-d14 | 68 | 49 - 121 | | | | |



Date of Report: August 12, 2020
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 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-06-6.0 | | | | |
| Laboratory ID: | | 07-331-23 | | | | |
| Naphthalene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | 0.036 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | 0.10 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | 0.15 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.28 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | 0.037 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | 0.10 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | 0.055 | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.031 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 58 | 45 - 114 | | | | |
| Terphenyl-d14 | 63 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-03-5.0 | | | | |
| Laboratory ID: | | 07-331-25 | | | | |
| Naphthalene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.027 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 62 | 46 - 113 | | | | |
| Pyrene-d10 | 61 | 45 - 114 | | | | |
| Terphenyl-d14 | 65 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-07-5.0 | | | | | |
| Laboratory ID: | 07-331-29 | | | | | |
| Naphthalene | 0.041 | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | 0.031 | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | 0.028 | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.016 | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0086 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 62 | 46 - 113 | | | | |
| Pyrene-d10 | 61 | 45 - 114 | | | | |
| Terphenyl-d14 | 65 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags | |
|-------------------------|------------------|----------------|---------------|---------------|---------------|-------|--|
| Client ID: | FB-08-5.5 | | | | | | |
| Laboratory ID: | 07-331-32 | | | | | | |
| Naphthalene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | U1 | |
| 2-Methylnaphthalene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| 1-Methylnaphthalene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Acenaphthylene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Acenaphthene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Fluorene | ND | 0.040 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Phenanthrene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Anthracene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Fluoranthene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Pyrene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Benzo[a]anthracene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Chrysene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Benzo[b]fluoranthene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Benzo(j,k)fluoranthene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Benzo[a]pyrene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Dibenz[a,h]anthracene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Benzo[g,h,i]perylene | ND | 0.026 | EPA 8270E/SIM | 8-7-20 | 8-10-20 | | |
| Surrogate: | Percent Recovery | Control Limits | | | | | |
| 2-Fluorobiphenyl | 69 | 46 - 113 | | | | | |
| Pyrene-d10 | 75 | 45 - 114 | | | | | |
| Terphenyl-d14 | 72 | 49 - 121 | | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-09-5.0 | | | | | |
| Laboratory ID: | 07-331-35 | | | | | |
| Naphthalene | 0.031 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | 0.049 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | 0.031 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | 0.068 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | 0.081 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.19 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | 0.017 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | 0.039 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | 0.030 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | 0.0079 | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0079 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 67 | 46 - 113 | | | | |
| Pyrene-d10 | 65 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-04-6.0 | | | | |
| Laboratory ID: | | 07-331-37 | | | | |
| Naphthalene | 0.051 | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | 0.092 | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | 0.059 | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | 0.013 | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | 0.023 | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0089 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 65 | 46 - 113 | | | | |
| Pyrene-d10 | 63 | 45 - 114 | | | | |
| Terphenyl-d14 | 64 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0807S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 8-7-20 | 8-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 76 | 46 - 113 | | | | |
| Pyrene-d10 | 77 | 45 - 114 | | | | |
| Terphenyl-d14 | 77 | 49 - 121 | | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|--------|-------------|--------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0807S1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.0699 | 0.0730 | 0.0833 | 0.0833 | 84 | 88 | 60 - 116 | 4 | 16 | |
| Acenaphthylene | 0.0662 | 0.0694 | 0.0833 | 0.0833 | 79 | 83 | 60 - 125 | 5 | 15 | |
| Acenaphthene | 0.0693 | 0.0726 | 0.0833 | 0.0833 | 83 | 87 | 60 - 121 | 5 | 15 | |
| Fluorene | 0.0671 | 0.0703 | 0.0833 | 0.0833 | 81 | 84 | 65 - 126 | 5 | 15 | |
| Phenanthrene | 0.0652 | 0.0681 | 0.0833 | 0.0833 | 78 | 82 | 65 - 120 | 4 | 15 | |
| Anthracene | 0.0707 | 0.0748 | 0.0833 | 0.0833 | 85 | 90 | 67 - 125 | 6 | 15 | |
| Fluoranthene | 0.0687 | 0.0721 | 0.0833 | 0.0833 | 82 | 87 | 66 - 125 | 5 | 15 | |
| Pyrene | 0.0647 | 0.0673 | 0.0833 | 0.0833 | 78 | 81 | 62 - 125 | 4 | 15 | |
| Benzo[a]anthracene | 0.0741 | 0.0768 | 0.0833 | 0.0833 | 89 | 92 | 72 - 129 | 4 | 15 | |
| Chrysene | 0.0768 | 0.0808 | 0.0833 | 0.0833 | 92 | 97 | 66 - 123 | 5 | 15 | |
| Benzo[b]fluoranthene | 0.0694 | 0.0724 | 0.0833 | 0.0833 | 83 | 87 | 68 - 128 | 4 | 15 | |
| Benzo(j,k)fluoranthene | 0.0693 | 0.0730 | 0.0833 | 0.0833 | 83 | 88 | 63 - 128 | 5 | 16 | |
| Benzo[a]pyrene | 0.0735 | 0.0768 | 0.0833 | 0.0833 | 88 | 92 | 66 - 130 | 4 | 15 | |
| Indeno(1,2,3-c,d)pyrene | 0.0677 | 0.0692 | 0.0833 | 0.0833 | 81 | 83 | 63 - 135 | 2 | 15 | |
| Dibenz[a,h]anthracene | 0.0710 | 0.0735 | 0.0833 | 0.0833 | 85 | 88 | 65 - 130 | 3 | 15 | |
| Benzo[g,h,i]perylene | 0.0728 | 0.0772 | 0.0833 | 0.0833 | 87 | 93 | 66 - 127 | 6 | 15 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 73 | 76 | 46 - 113 | | | |
| Pyrene-d10 | | | | | 71 | 74 | 45 - 114 | | | |
| Terphenyl-d14 | | | | | 76 | 79 | 49 - 121 | | | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**TOTAL ARSENIC
EPA 6010D**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FB-01-7.0 | | | | | |
| Laboratory ID: | 07-331-05 | | | | | |
| Arsenic | ND | 12 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|-------------------|----|-----------|--------|--------|--|
| Client ID: | FMW-02-3.0 | | | | | |
| Laboratory ID: | 07-331-12 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|------------------|----|-----------|--------|--------|--|
| Client ID: | FB-04-1.0 | | | | | |
| Laboratory ID: | 07-331-15 | | | | | |
| Arsenic | ND | 12 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|------------------|----|-----------|--------|--------|--|
| Client ID: | FB-05-3.0 | | | | | |
| Laboratory ID: | 07-331-19 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|-------------------|----|-----------|--------|--------|--|
| Client ID: | FB-05-11.0 | | | | | |
| Laboratory ID: | 07-331-21 | | | | | |
| Arsenic | ND | 18 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|--------------------|----|-----------|--------|--------|--|
| Client ID: | FMW-03-10.0 | | | | | |
| Laboratory ID: | 07-331-26 | | | | | |
| Arsenic | 23 | 17 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|------------------|----|-----------|--------|--------|--|
| Client ID: | FB-07-1.0 | | | | | |
| Laboratory ID: | 07-331-28 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 8-5-20 | 8-5-20 | |

| | | | | | | |
|-------------------|--------------------|----|-----------|--------|--------|--|
| Client ID: | FMW-04-12.0 | | | | | |
| Laboratory ID: | 07-331-38 | | | | | |
| Arsenic | ND | 16 | EPA 6010D | 8-5-20 | 8-5-20 | |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

**TOTAL ARSENIC
 EPA 6010D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0805SM1 | | | | | |
| Arsenic | ND | 5.0 | EPA 6010D | 8-5-20 | 8-5-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 07-331-38 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|-----|-----|----|-----------|-----------|--------|---|----|
| Laboratory ID: | 07-331-38 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 89.2 | 88.2 | 100 | 100 | ND | 89 | 88 | 75-125 | 1 | 20 |



Date of Report: August 12, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331
 Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|-------------|-----------|------------|---------------|
| FB-01-7.0 | 07-331-05 | 58 | 8-5-20 |
| FB-02-5.5 | 07-331-08 | 63 | 8-6-20 |
| FB-03-6.0 | 07-331-10 | 65 | 8-6-20 |
| FMW-02-3.0 | 07-331-12 | 12 | 8-5-20 |
| FB-04-1.0 | 07-331-15 | 14 | 8-5-20 |
| FB-05-3.0 | 07-331-19 | 11 | 8-5-20 |
| FB-05-11.0 | 07-331-21 | 45 | 8-5-20 |
| FB-06-6.0 | 07-331-23 | 79 | 8-6-20 |
| FMW-03-5.0 | 07-331-25 | 76 | 8-6-20 |
| FMW-03-10.0 | 07-331-26 | 42 | 8-5-20 |
| FB-07-1.0 | 07-331-28 | 11 | 8-5-20 |
| FB-07-5.0 | 07-331-29 | 23 | 8-6-20 |
| FB-07-15.0 | 07-331-30 | 69 | 8-7-20 |
| FB-08-5.5 | 07-331-32 | 75 | 8-6-20 |
| FB-08-13.0 | 07-331-33 | 68 | 8-7-20 |
| FB-09-5.0 | 07-331-35 | 16 | 8-6-20 |
| FB-09-15.0 | 07-331-36 | 68 | 8-7-20 |
| FMW-04-6.0 | 07-331-37 | 25 | 8-6-20 |
| FMW-04-12.0 | 07-331-38 | 68 | 8-5-20 |





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 methods 8260 & 8270, 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 1 of 4

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------------|--|----------------|--|--|------------|---------------|----------|---------------------------------|-----------------|-----------------------------|----------------------------|---|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|---------------|------------|
| Company: <u>Facallan</u> | | Turnaround Request (in working days) | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</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) | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> (other) | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | | | | | |
| 1 | FMU-01-1.0 | 7/30/20 | 0920 | Soil | 4 | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (X 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 | TOTAL ARSENIC | % Moisture |
| 2 | FALU-01-4.0 | | 0923 | | | | | | | | | | | | | | | | | | | | | |
| 3 | FALU-01-14.5 | | 0935 | | | | | | | | | | | | | | | | | | | | | |
| 4 | FB-01-0.5 | | 1045 | | | | | | | | | | | | | | | | | | | | | |
| 5 | FB-01-7.0 | | 1050 | | | | | | X | | | | | | | | | | | | | | | |
| 6 | FB-01-15.0 | | 1055 | | | | | | | | | | | | | | | | | | | | | |
| 7 | FB-02-4.0 | | 1103 | | | | | | | | | | | | | | | | | | | | | |
| 8 | FB-02-5.5 | | 1108 | | | | | | X | | | | | | | | | | | | | | | |
| 9 | FB-03-1.0 | | 1145 | | | | | | | | | | | | | | | | | | | | | |
| 10 | FB-03- 1.0 6.0 | | 1150 | | | | | | X | | | | | | | | | | | | | | | |
| Signature | | Company | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Facallan</u> | <u>7/31/20</u> | <u>1426</u> | FB-03-6.0 containers mislabeled as FB-03-8.0 | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | <u>Matthew L. Brown</u> | <u>7/31/20</u> | <u>1426</u> | Held all samples, with contact w/ selected analytes X-Added 8/4/2020. DB (STN) | | | | | | | | | | | | | | | | | | | |
| 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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Chain of Custody

Page 2 of 4

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|-----------------------|-----------------|--|----------------|----------------------|---|---------------|----------|-------------------------------|-----------------|-----------------------------|----------------------------|---|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|---------------|------------|
| CIVIL-ENGINEERING INC. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3981 • www.on-site-env.com | | | Turnaround Request (In working days) | | | Laboratory Number: 07-3331 | | | | | | | | | | | | | | | | | | |
| Company: <u>Facellan</u> | | | (Check One) | | | | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | <input type="checkbox"/> (other) | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | | | | | |
| 11 | FB-03-13.0 | 7/30/20 | 1155 | soil | 4 | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | TOTAL ARSENIC | % Moisture |
| 12 | FML-02-3.0 | | 1205 | | | | | X | | | | | X | | | | | | | | | | | X |
| 13 | FML-02-6.0 | | 1210 | | | | | | | | | | | | | | | | | | | | | |
| 14 | FML-02-14.0 | | 1215 | | | | | | | | | | | | | | | | | | | | | |
| 15 | FB-04-1.0 | | 1315 | | | | | X | | | | | X | | | | | | | | | | | X |
| 16 | FB-04-4.0 | | 1317 | | | | | | | | | | | | | | | | | | | | | |
| 17 | FB-04-6.0 | | 1320 | | | | | | | | | | | | | | | | | | | | | |
| 18 | FB-04-18.0 | | 1325 | | | | | | | | | | | | | | | | | | | | | |
| 19 | FB-05-3.0 | | 1335 | | | | | X | | | | | | | X | | | | | | | | | X |
| 20 | FB-05-8.0 | | 1340 | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | Signature | Company | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | | | | | | |
| Received | | <u>Facellan</u> | <u>Facellan</u> | <u>7/31/20</u> | <u>1446</u> | Hold all samples. Will contact w/ selected analyses | | | | | | | | | | | | | | | | | | |
| Relinquished | | <u>Facellan</u> | <u>Facellan</u> | <u>7/31/20</u> | <u>1446</u> | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | | | | | Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | | | | | Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> | | | | | | | | | | | | | | | | | | |



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| | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|--|----------------|----------------------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: <u>Fallen</u> | | Turnaround Request (in working days) | | Laboratory Number: 07-331 | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | <input type="checkbox"/> (other) | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | |
| 21 | FB-05-11.0 | 7/30/20 | 1343 | Soil | 4 | | | | | | | | | | | | | |
| 22 | FB-06-0.5 | | 1408 | | | | | | | | | | | | | | | |
| 23 | FB-06-6.0 | | 1415 | | | | | | | | | | | | | | | |
| 24 | FB-06-12.0 | | 1420 | | | | | | | | | | | | | | | |
| 25 | FMU-03-5.0 | 7/31/20 | 0816 | | | | | | | | | | | | | | | |
| 26 | FMU-03-10.0 | | 0814 | | | | | | | | | | | | | | | |
| 27 | FMU-03-20.0 | | 0827 | | | | | | | | | | | | | | | |
| 28 | FB-07-1.0 | | 0947 | | | | | | | | | | | | | | | |
| 29 | FB-07-5.0 | | 0955 | | | | | | | | | | | | | | | |
| 30 | FB-07-15.0 | | 1000 | | | | | | | | | | | | | | | |
| Signature | | Company | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Fallen</u> | <u>7/31/20</u> | <u>1446</u> | <u>Hold all samples, will contact w/ selected analysts</u> | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | Reviewed/Date | | | | | | | | | | | | | | | | |

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



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Turnaround Request
(in working days)

Laboratory Number:

07-331

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Company: Farallon
Project Number: 650-031
Project Name: Thompson Field
Project Manager: C. Schmitt
Sampled by: S. Brown

Date Sampled: 7/31/20 Time Sampled: 1000 Matrix: Soil
Number of Containers: 4

| | |
|---|-------------------------------------|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-Dx (Acid / SG Clean-up) | <input checked="" type="checkbox"/> |
| 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 | |
| TOTAL ARSENIC | |
| % Moisture | |

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | TOTAL ARSENIC | % Moisture |
|--------|-----------------------|--------------|--------------|--------|----------------------|------------|---------------|----------|-------------------------------|-----------------|-----------------------------|----------------------------|---|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|---------------|------------|
| 31 | FB-08-1.0 | 7/31/20 | 1000 | Soil | 4 | | | | | | | | | | | | | | | | | | | |
| 32 | FB-08-5.5 | | | | | | | X | | X | | | | X | | | | | | | | | | X |
| 33 | FB-08-13.0 | | | | | | | | | X | | | X | | | | | | | | | | | X |
| 34 | FB-09-1.0 | | | | | | | | | | | | | | | | | | | | | | | |
| 35 | FB-09-5.0 | | | | | | | | X | X | | | | X | | | | | | | | | | X |
| 36 | FB-09-15.0 | | | | | | | | | X | | | | X | | | | | | | | | | X |
| 37 | FW-04-6.0 | | | | | | | X | | X | | | | X | | | | | | | | | | X |
| 38 | FW-04-12.0 | | | | | | | | | X | | | | X | | | | | | | | | | X |
| 39 | FW-04-17.0 | | | | | | | | | | | | | | | | | | | | | | | |

Signature

Company

Date

Time

Comments/Special Instructions

| | | | | | |
|---------------|--------------------|-----------------|----------------|-------------|---|
| Relinquished | <u>[Signature]</u> | <u>Farallon</u> | <u>7/31/20</u> | <u>1446</u> | <u>Hold all samples, will contact w/ selected analytes as</u> |
| Received | <u>[Signature]</u> | <u>OSI</u> | <u>7/31/20</u> | <u>1446</u> | |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Relinquished | | | | | |
| 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

August 19, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2007-331B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: August 19, 2020
Samples Submitted: July 31, 2020
Laboratory Reference: 2007-331B
Project: 650-031

Case Narrative

Samples were collected on July 30 and 31, 2020 and received by the laboratory on July 31, 2020. 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: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-01-0.5 | | | | | |
| Laboratory ID: | 07-331-04 | | | | | |
| Naphthalene | 0.0079 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| 2-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| 1-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Acenaphthylene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Acenaphthene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Fluorene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Phenanthrene | 0.028 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Anthracene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Fluoranthene | 0.034 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Pyrene | 0.033 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[a]anthracene | 0.017 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Chrysene | 0.019 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[b]fluoranthene | 0.022 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[a]pyrene | 0.020 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.013 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[g,h,i]perylene | 0.013 | 0.0074 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 85 | 46 - 113 | | | | |
| Pyrene-d10 | 98 | 45 - 114 | | | | |
| Terphenyl-d14 | 98 | 49 - 121 | | | | |



Date of Report: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-02-4.0 | | | | | |
| Laboratory ID: | 07-331-07 | | | | | |
| Naphthalene | 4.6 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| 2-Methylnaphthalene | 2.0 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| 1-Methylnaphthalene | 1.4 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Acenaphthylene | 0.045 | 0.0075 | EPA 8270E/SIM | 8-13-20 | 8-18-20 | |
| Acenaphthene | 3.0 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Fluorene | 3.2 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Phenanthrene | 9.5 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Anthracene | 1.4 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Fluoranthene | 5.7 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Pyrene | 4.3 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[a]anthracene | 1.6 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Chrysene | 1.5 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[b]fluoranthene | 1.2 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo(j,k)fluoranthene | 0.49 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[a]pyrene | 1.2 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.60 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Dibenz[a,h]anthracene | 0.13 | 0.0075 | EPA 8270E/SIM | 8-13-20 | 8-18-20 | |
| Benzo[g,h,i]perylene | 0.59 | 0.15 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>76</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>85</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>82</i> | <i>49 - 121</i> | | | | |



Date of Report: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-03-1.0 | | | | | |
| Laboratory ID: | 07-331-09 | | | | | |
| Naphthalene | 0.025 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| 2-Methylnaphthalene | 0.018 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| 1-Methylnaphthalene | 0.0084 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Acenaphthylene | 0.010 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Acenaphthene | 0.034 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Fluorene | 0.029 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Phenanthrene | 0.29 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Anthracene | 0.069 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Fluoranthene | 0.40 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Pyrene | 0.40 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[a]anthracene | 0.20 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Chrysene | 0.20 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[b]fluoranthene | 0.21 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo(j,k)fluoranthene | 0.077 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[a]pyrene | 0.21 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.13 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Dibenz[a,h]anthracene | 0.025 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| Benzo[g,h,i]perylene | 0.12 | 0.0073 | EPA 8270E/SIM | 8-13-20 | 8-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>92</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>98</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>97</i> | <i>49 - 121</i> | | | | |



Date of Report: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|--------|-------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-02-6.0 | | | | |
| Laboratory ID: | | 07-331-13 | | | | |
| Naphthalene | 2.5 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| 2-Methylnaphthalene | 1.7 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| 1-Methylnaphthalene | 1.2 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Acenaphthylene | 0.055 | 0.0082 | EPA 8270E/SIM | 8-13-20 | 8-18-20 | |
| Acenaphthene | 3.3 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Fluorene | 4.9 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Phenanthrene | 13 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Anthracene | 1.7 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Fluoranthene | 5.5 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Pyrene | 4.2 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[a]anthracene | 1.5 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Chrysene | 1.5 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[b]fluoranthene | 1.3 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo(j,k)fluoranthene | 0.48 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Benzo[a]pyrene | 1.2 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.63 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| Dibenz[a,h]anthracene | 0.15 | 0.0082 | EPA 8270E/SIM | 8-13-20 | 8-18-20 | |
| Benzo[g,h,i]perylene | 0.64 | 0.16 | EPA 8270E/SIM | 8-13-20 | 8-19-20 | |
| <i>Surrogate: Percent Recovery Control Limits</i> | | | | | | |
| 2-Fluorobiphenyl | 68 | 46 - 113 | | | | |
| Pyrene-d10 | 80 | 45 - 114 | | | | |
| Terphenyl-d14 | 79 | 49 - 121 | | | | |



Date of Report: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0813S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 8-13-20 | 8-13-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 69 | 46 - 113 | | | | |
| Pyrene-d10 | 75 | 45 - 114 | | | | |
| Terphenyl-d14 | 73 | 49 - 121 | | | | |



Date of Report: August 19, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|--------|-------------|--------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0813S1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.0611 | 0.0625 | 0.0833 | 0.0833 | 73 | 75 | 60 - 116 | 2 | 16 | |
| Acenaphthylene | 0.0686 | 0.0681 | 0.0833 | 0.0833 | 82 | 82 | 60 - 125 | 1 | 15 | |
| Acenaphthene | 0.0659 | 0.0677 | 0.0833 | 0.0833 | 79 | 81 | 60 - 121 | 3 | 15 | |
| Fluorene | 0.0630 | 0.0662 | 0.0833 | 0.0833 | 76 | 79 | 65 - 126 | 5 | 15 | |
| Phenanthrene | 0.0608 | 0.0633 | 0.0833 | 0.0833 | 73 | 76 | 65 - 120 | 4 | 15 | |
| Anthracene | 0.0653 | 0.0678 | 0.0833 | 0.0833 | 78 | 81 | 67 - 125 | 4 | 15 | |
| Fluoranthene | 0.0659 | 0.0680 | 0.0833 | 0.0833 | 79 | 82 | 66 - 125 | 3 | 15 | |
| Pyrene | 0.0665 | 0.0690 | 0.0833 | 0.0833 | 80 | 83 | 62 - 125 | 4 | 15 | |
| Benzo[a]anthracene | 0.0646 | 0.0660 | 0.0833 | 0.0833 | 78 | 79 | 72 - 129 | 2 | 15 | |
| Chrysene | 0.0613 | 0.0617 | 0.0833 | 0.0833 | 74 | 74 | 66 - 123 | 1 | 15 | |
| Benzo[b]fluoranthene | 0.0619 | 0.0660 | 0.0833 | 0.0833 | 74 | 79 | 68 - 128 | 6 | 15 | |
| Benzo(j,k)fluoranthene | 0.0647 | 0.0641 | 0.0833 | 0.0833 | 78 | 77 | 63 - 128 | 1 | 16 | |
| Benzo[a]pyrene | 0.0649 | 0.0662 | 0.0833 | 0.0833 | 78 | 79 | 66 - 130 | 2 | 15 | |
| Indeno(1,2,3-c,d)pyrene | 0.0616 | 0.0623 | 0.0833 | 0.0833 | 74 | 75 | 63 - 135 | 1 | 15 | |
| Dibenz[a,h]anthracene | 0.0611 | 0.0625 | 0.0833 | 0.0833 | 73 | 75 | 65 - 130 | 2 | 15 | |
| Benzo[g,h,i]perylene | 0.0603 | 0.0614 | 0.0833 | 0.0833 | 72 | 74 | 66 - 127 | 2 | 15 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 70 | 72 | 46 - 113 | | | |
| Pyrene-d10 | | | | | 74 | 77 | 45 - 114 | | | |
| Terphenyl-d14 | | | | | 73 | 74 | 49 - 121 | | | |



Date of Report: August 19, 2020
Samples Submitted: July 31, 2020
Laboratory Reference: 2007-331B
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|-------------------|---------------|-------------------|----------------------|
| FB-01-0.5 | 07-331-04 | 10 | 8-13-20 |
| FB-02-4.0 | 07-331-07 | 11 | 8-13-20 |
| FB-03-1.0 | 07-331-09 | 9 | 8-13-20 |
| FMW-02-6.0 | 07-331-13 | 19 | 8-13-20 |





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 methods 8260 & 8270, 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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| | | | | | | | | | | | | | | | | | |
|-------------------------------------|---------------------------|--|--------------|---|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: <u>Farallon</u> | | Turnaround Request (in working days) | | Laboratory Number: 07-331 | | | | | | | | | | | | | |
| Project Number: <u>650-031</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) | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> (other) _____ | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | |
| 1 | FW-01-1.0 | 7/30/20 | 0900 | Soil | 4 | | | | | | | | | | | | |
| 2 | FW-01-4.0 | | 0923 | | | | | | | | | | | | | | |
| 3 | FW-01-14.5 | | 0935 | | | | | | | | | | | | | | |
| 4 | FB-01-0.5 | | 1045 | | | | | | | | | | | | | | |
| 5 | FB-01-7.0 | | 1050 | | | | | | | | | | | | | | |
| 6 | FB-01-15.0 | | 1055 | | | | | | | | | | | | | | |
| 7 | FB-02-4.0 | | 1103 | | | | | | | | | | | | | | |
| 8 | FB-02-5.5 | | 1108 | | | | | | | | | | | | | | |
| 9 | FB-03-1.0 | | 1145 | | | | | | | | | | | | | | |
| 10 | FB-03- 8.0 6.0 | | 1150 | | | | | | | | | | | | | | |
| Signature | | Company | | Date | Time | Comments/Special Instructions | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Farallon</u> | | 7/31/20 | 1426 | FB-03-6.0 containers mislabeled as FB-03-8.0 | | | | | | | | | | | |
| Relinquished | | Relinquished | | 7/31/20 | 1426 | Held all samples, will contact w/ selected analyses | | | | | | | | | | | |
| Received | | Received | | | | X-Added 8/4/2020. DS (STA) | | | | | | | | | | | |
| Relinquished | | Relinquished | | | | X-Added 8/13/2020. DS (STA) | | | | | | | | | | | |
| Received | | Received | | | | Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> | | | | | | | | | | | |
| Reviewed/Date | | Reviewed/Date | | Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> | | | | | | | | | | | | | |



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Chain of Custody

Page 2 of 4

| Turnaround Request (in working days) | | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | |
|---|---------------------------------|---------------|----------------------------------|--------|--|--|--|--|--|--|--|--|--|---|--|--|--|--|
| (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) | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> _____ (other) | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | |
| 11 | FB-03-13.0 | 7/30/20 | 1155 | soil | 4 | | | | | | | | | | | | | |
| 12 | FML-02-3.0 | | 1205 | | | | | | | | | | | | | | | |
| 13 | FML-02-6.0 | | 1210 | | | | | | | | | | | | | | | |
| 14 | FML-02-14.0 | | 1215 | | | | | | | | | | | | | | | |
| 15 | FB-04-1.0 | | 1315 | | | | | | | | | | | | | | | |
| 16 | FB-04-4.0 | | 1317 | | | | | | | | | | | | | | | |
| 17 | FB-04-6.0 | | 1320 | | | | | | | | | | | | | | | |
| 18 | FB-04-18.0 | | 1325 | | | | | | | | | | | | | | | |
| 19 | FB-05-3.0 | | 1335 | | | | | | | | | | | | | | | |
| 20 | FB-05-8.0 | | 1340 | | | | | | | | | | | | | | | |
| Signature | | Company | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | |
| [Signature] | | Facility | 7/31/20 | 1446 | Hold all samples with contact by selected enterprises | | | | | | | | | | | | | |
| [Signature] | | OSE | 7/31/20 | 1446 | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | |
| 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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Chain of Custody

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| | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|--|--------------|---|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: <u>Facallen</u> | | Turnaround Request (in working days) | | Laboratory Number: 07-331 | | | | | | | | | | | | | |
| Project Number: <u>650-031</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) | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> (other) | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | |
| 21 | FB-05-11.0 | 7/30/20 | 1343 | Soil | 4 | | | | | | | | | | | | |
| 22 | FB-06-0.5 | | 1408 | | | | | | | | | | | | | | |
| 23 | FB-06-6.0 | | 1415 | | | | | | | | | | | | | | |
| 24 | FB-06-12.0 | | 1430 | | | | | | | | | | | | | | |
| 25 | FW-03-5.0 | 7/31/20 | 0816 | | | | | | | | | | | | | | |
| 26 | FW-03-10.0 | | 0814 | | | | | | | | | | | | | | |
| 27 | FW-03-20.0 | | 0827 | | | | | | | | | | | | | | |
| 28 | FB-07-1.0 | | 0947 | | | | | | | | | | | | | | |
| 29 | FB-07-5.0 | | 0955 | | | | | | | | | | | | | | |
| 30 | FB-07-15.0 | | 1000 | | | | | | | | | | | | | | |
| Signature | | Company | | Date | Time | Comments/Special Instructions | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Facallen</u> | | <u>7/31/20</u> | <u>1446</u> | <u>Hold all samples, will contact w/ selected analysts</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"/> | | | | | | | | | | | | | |

Chain of Custody

| | | | | | |
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| Company: <u>Fanella</u> | | | Turnaround Request (in working days) | | |
| Project Number: <u>650-031</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) | | |
| Project Name: <u>Thompson Field</u> | | | <input type="checkbox"/> (other) _____ | | |
| Project Manager: <u>C. Schmitt</u> | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
| 31 | FB-08-1.0 | 7/31/20 | 1000 | Soil | 4 |
| 32 | FB-08-5.5 | | | | |
| 33 | FB-08-13.0 | | | | |
| 34 | FB-09-1.0 | | | | |
| 35 | FB-09-5.0 | | | | |
| 36 | FB-09-15.0 | | | | |
| 37 | FW-04-6.0 | | | | |
| 38 | FW-04-12.0 | | | | |
| 39 | FW-04-17.0 | | | | |
| Signature | | Company | | Date | Time |
| <u>[Signature]</u> | | <u>Fanella</u> | | <u>7/3/20</u> | <u>1446</u> |
| Relinquished | | Relinquished | | Comments/Special Instructions | |
| Received | | Received | | Hold all samples, will contact w/ scheduled analyses as | |
| Relinquished | | Relinquished | | | |
| Received | | Received | | | |
| Relinquished | | Relinquished | | | |
| Received | | Received | | | |
| Relinquished | | 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"/> | |



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

September 3, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2007-331C

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on July 31, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

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: September 3, 2020
Samples Submitted: July 31, 2020
Laboratory Reference: 2007-331C
Project: 650-031

Case Narrative

Samples were collected on July 30 and 31, 2020 and received by the laboratory on July 31, 2020. 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.

PAHs EPA 8270E/SIM Analysis

The client requested the analysis of sample FMW-02-14.0 after the holding time had expired.

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



Date of Report: September 3, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331C
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-02-14.0 | | | | |
| Laboratory ID: | | 07-331-14 | | | | |
| Naphthalene | 0.86 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| 2-Methylnaphthalene | 0.56 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| 1-Methylnaphthalene | 0.44 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Acenaphthylene | 0.031 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Acenaphthene | 1.2 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Fluorene | 1.5 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Phenanthrene | 4.6 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Anthracene | 0.53 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Fluoranthene | 2.6 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Pyrene | 2.1 | 0.16 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[a]anthracene | 0.57 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Chrysene | 0.48 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[b]fluoranthene | 0.38 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo(j,k)fluoranthene | 0.11 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[a]pyrene | 0.30 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.19 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Dibenz[a,h]anthracene | 0.036 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[g,h,i]perylene | 0.16 | 0.0082 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 68 | 46 - 113 | | | | |
| Pyrene-d10 | 80 | 45 - 114 | | | | |
| Terphenyl-d14 | 73 | 49 - 121 | | | | |



Date of Report: September 3, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331C
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0828S1 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 8-28-20 | 8-28-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 74 | 46 - 113 | | | | |
| Pyrene-d10 | 84 | 45 - 114 | | | | |
| Terphenyl-d14 | 78 | 49 - 121 | | | | |



Date of Report: September 3, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331C
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|--------|-------------|--------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0828S1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.0728 | 0.0770 | 0.0833 | 0.0833 | 87 | 92 | 60 - 116 | 6 | 16 | |
| Acenaphthylene | 0.0756 | 0.0784 | 0.0833 | 0.0833 | 91 | 94 | 60 - 125 | 4 | 15 | |
| Acenaphthene | 0.0720 | 0.0744 | 0.0833 | 0.0833 | 86 | 89 | 60 - 121 | 3 | 15 | |
| Fluorene | 0.0791 | 0.0787 | 0.0833 | 0.0833 | 95 | 94 | 65 - 126 | 1 | 15 | |
| Phenanthrene | 0.0803 | 0.0799 | 0.0833 | 0.0833 | 96 | 96 | 65 - 120 | 0 | 15 | |
| Anthracene | 0.0805 | 0.0807 | 0.0833 | 0.0833 | 97 | 97 | 67 - 125 | 0 | 15 | |
| Fluoranthene | 0.0748 | 0.0752 | 0.0833 | 0.0833 | 90 | 90 | 66 - 125 | 1 | 15 | |
| Pyrene | 0.0861 | 0.0846 | 0.0833 | 0.0833 | 103 | 102 | 62 - 125 | 2 | 15 | |
| Benzo[a]anthracene | 0.0815 | 0.0813 | 0.0833 | 0.0833 | 98 | 98 | 72 - 129 | 0 | 15 | |
| Chrysene | 0.0751 | 0.0791 | 0.0833 | 0.0833 | 90 | 95 | 66 - 123 | 5 | 15 | |
| Benzo[b]fluoranthene | 0.0837 | 0.0823 | 0.0833 | 0.0833 | 100 | 99 | 68 - 128 | 2 | 15 | |
| Benzo(j,k)fluoranthene | 0.0723 | 0.0738 | 0.0833 | 0.0833 | 87 | 89 | 63 - 128 | 2 | 16 | |
| Benzo[a]pyrene | 0.0805 | 0.0817 | 0.0833 | 0.0833 | 97 | 98 | 66 - 130 | 1 | 15 | |
| Indeno(1,2,3-c,d)pyrene | 0.0900 | 0.0909 | 0.0833 | 0.0833 | 108 | 109 | 63 - 135 | 1 | 15 | |
| Dibenz[a,h]anthracene | 0.0855 | 0.0854 | 0.0833 | 0.0833 | 103 | 103 | 65 - 130 | 0 | 15 | |
| Benzo[g,h,i]perylene | 0.0793 | 0.0801 | 0.0833 | 0.0833 | 95 | 96 | 66 - 127 | 1 | 15 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 78 | 81 | 46 - 113 | | | |
| Pyrene-d10 | | | | | 87 | 84 | 45 - 114 | | | |
| Terphenyl-d14 | | | | | 86 | 85 | 49 - 121 | | | |



Date of Report: September 3, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331C
 Project: 650-031

TOTAL ARSENIC
EPA 6010D

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|-------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-03-5.0 | | | | | |
| Laboratory ID: | 07-331-25 | | | | | |
| Arsenic | ND | 21 | EPA 6010D | 8-31-20 | 8-31-20 | |

| | | | | | | |
|-------------------|--------------------|----|-----------|---------|---------|--|
| Client ID: | FMW-03-20.0 | | | | | |
| Laboratory ID: | 07-331-27 | | | | | |
| Arsenic | ND | 13 | EPA 6010D | 8-31-20 | 8-31-20 | |



Date of Report: September 3, 2020
 Samples Submitted: July 31, 2020
 Laboratory Reference: 2007-331C
 Project: 650-031

**TOTAL ARSENIC
 EPA 6010D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0831SM2 | | | | | |
| Arsenic | ND | 5.0 | EPA 6010D | 8-31-20 | 8-31-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 08-257-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|-----|-----|----|-----------|-----------|--------|---|----|
| Laboratory ID: | 08-257-01 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 90.6 | 90.5 | 100 | 100 | ND | 91 | 91 | 75-125 | 0 | 20 |



Date of Report: September 3, 2020
Samples Submitted: July 31, 2020
Laboratory Reference: 2007-331C
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|--------------------|---------------|-------------------|----------------------|
| FMW-02-14.0 | 07-331-14 | 19 | 8-28-20 |
| FMW-03-20.0 | 07-331-27 | 21 | 8-28-20 |





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 methods 8260 & 8270, 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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| | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------|---------|------|--|---|------------|---------------|----------------------|---------------------------------|-----------------|-----------------------------|----------------------------|---|----------------------------|------------|--|---------------------------------------|-----------------------------------|-------------------|----------------------|-------------|----------------------------|---------------|------------|--|--|--|
| Turnaround Request (in working days) | | | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | | | | | | | | | |
| (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) | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: <u>Facallon</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | | | | Sample Identification | | | | Date Sampled | | | | Time Sampled | | | | Matrix | | | | Number of Containers | | | | | | | |
| 1 | FB-01-1.0 | 7/30/20 | 0920 | 50:1 | 4 | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (X 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 | TOTAL ARSENIC | % Moisture | | | |
| 2 | FB-01-4.0 | | 0923 | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | FB-01-14.5 | | 0935 | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | FB-01-0.5 | | 1045 | | | | | | | | | | | | | | | | | | | | | | | | |
| 5 | FB-01-7.0 | | 1050 | | | | | | | | | | | | | | | | | | | | | | | | |
| 6 | FB-01-15.0 | | 1055 | | | | | | | | | | | | | | | | | | | | | | | | |
| 7 | FB-02-4.0 | | 1103 | | | | | | | | | | | | | | | | | | | | | | | | |
| 8 | FB-02-5.5 | | 1108 | | | | | | | | | | | | | | | | | | | | | | | | |
| 9 | FB-03-1.0 | | 1145 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10 | FB-03-6.0 | | 1150 | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature: <u>[Signature]</u> | | | | Company: <u>Facallon</u> | | | | Date: <u>7/31/20</u> | | | | Time: <u>1426</u> | | | | Comments/Special Instructions: <u>FB-03-6.0 containers mislabeled as FB-03-8.0</u> | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | Hold all samples, will contact w/ selected analyses | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/4/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Received | | | | Received | | | | Received | | | | Received | | | | X-Added 8/13/2020. DG (STA) | | | | | | | | | | | |
| Relinquished | | | | Relinquished | | | | Relinquished | | | | Relinquished | | | | X-Added 8/13/2020 | | | | | | | | | | | |



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| | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|---|--------------|---|----------------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| Company: <u>Facellan</u> | | 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) | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | <input type="checkbox"/> (other) _____ | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | | |
| 11 | FB-03-13.0 | 7/30/20 | 1155 | soil | 4 | | | | | | | | | | | | | | | | |
| 12 | FALU-02-3.0 | | 1205 | | | | | | | | | | | | | | | | | | |
| 13 | FALU-02-6.0 | | 1210 | | | | | | | | | | | | | | | | | | |
| 14 | FALU-02-14.0 | | 1215 | | | | | | | | | | | | | | | | | | |
| 15 | FB-04-1.0 | | 1315 | | | | | | | | | | | | | | | | | | |
| 16 | FB-04-4.0 | | 1317 | | | | | | | | | | | | | | | | | | |
| 17 | FB-04-6.0 | | 1320 | | | | | | | | | | | | | | | | | | |
| 18 | FB-04-10.0 | | 1325 | | | | | | | | | | | | | | | | | | |
| 19 | FB-05-3.0 | | 1335 | | | | | | | | | | | | | | | | | | |
| 20 | FB-05-8.0 | | 1340 | | | | | | | | | | | | | | | | | | |
| Signature | | Company | | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Facellan</u> | | <u>7/31/20</u> | <u>1446</u> | <u>Hold all samples. will contact by selected analyses</u> | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>OSE</u> | | <u>7/31/20</u> | <u>1446</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"/> | | | | | | | | | | | | | | | | | |



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Chain of Custody

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| Turnaround Request (in working days) | | | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | | |
|--|-----------------------|--------------|--------------|----------------------------------|----------------------|---------|--|------|--|---|--|--|--|--|--|--|--|--|--|--|
| (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) | | | | | | | | | | | | | | | | | | | | |
| <input type="checkbox"/> _____ (other) | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | |
| 21 | FB-05-11.0 | 7/30/20 | 1343 | Soil | 4 | | | | | | | | | | | | | | | |
| 22 | FB-06-0.5 | | 1408 | | | | | | | | | | | | | | | | | |
| 23 | FB-06-6.0 | | 1415 | | | | | | | | | | | | | | | | | |
| 24 | FB-06-12.0 | | 1430 | | | | | | | | | | | | | | | | | |
| 25 | FMU-03-5.0 | 7/31/20 | 0816 | | | | | | | | | | | | | | | | | |
| 26 | FMU-03-10.0 | | 0814 | | | | | | | | | | | | | | | | | |
| 27 | FMU-03-20.0 | | 0827 | | | | | | | | | | | | | | | | | |
| 28 | FB-07-1.0 | | 0947 | | | | | | | | | | | | | | | | | |
| 29 | FB-07-5.0 | | 0955 | | | | | | | | | | | | | | | | | |
| 30 | FB-07-15.0 | | 1006 | | | | | | | | | | | | | | | | | |
| Relinquished | | Signature | | Company | | Date | | Time | | Comments/Special Instructions | | | | | | | | | | |
| Relinquished | | | | Facullen | | 7/31/20 | | 1446 | | Hold all samples, will contact w/ selected analytes | | | | | | | | | | |
| 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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Chain of Custody

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| | | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|--|--------------|----------------------------------|----------------------|--|---------------|----------|-------------------------------|-----------------|-----------------------------|----------------------------|---|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|---------------|------------|--|
| Company: <u>Faulber</u> | | Turnaround Request (in working days) | | Laboratory Number: 07-331 | | | | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>S. Brown</u> | | <input type="checkbox"/> _____ (other) | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | | | | | | |
| 31 | FB-08-1.0 | 7/31/20 | 1000 | Soil | 4 | | | | | | | | | | | | | | | | | | | | |
| 32 | FB-08-5.5 | | 1005 | | | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (Acid / SG Clean-up) | Volatiles 8260C | Halogenated Volatiles 8260C | EDB EPA 8011 (Waters Only) | Semivolatiles 8270D/SIM (with low-level PAHs) | PAHs 8270D/SIM (low-level) | PCBs 8082A | Organochlorine Pesticides 8081B | Organophosphorus Pesticides 8270D/SIM | Chlorinated Acid Herbicides 8151A | Total RCRA Metals | Total MTCA Metals | TCLP Metals | HEM (oil and grease) 1664A | TOTAL ARSENIC | % Moisture | |
| 33 | FB-08-13.0 | | 1010 | | | | | | | | | | | | | | | | | | | | | | |
| 34 | FB-09-1.0 | | 1035 | | | | | | | | | | | | | | | | | | | | | | |
| 35 | FB-09-5.0 | | 1040 | | | | | | | | | | | | | | | | | | | | | | |
| 36 | FB-09-15.0 | | 1056 | | | | | | | | | | | | | | | | | | | | | | |
| 37 | FW-04-6.0 | | 1050 | | | | | | | | | | | | | | | | | | | | | | |
| 38 | FW-04-12.0 | | 1105 | | | | | | | | | | | | | | | | | | | | | | |
| 39 | FW-04-17.0 | | 1116 | | | | | | | | | | | | | | | | | | | | | | |
| Signature | | Company | | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | | | | | | | |
| <u>[Signature]</u> | | <u>Faulber</u> | | <u>7/3/20</u> | <u>1446</u> | <u>Hold all samples, will contact w/ selected analyses as</u> | | | | | | | | | | | | | | | | | | | |
| Relinquished | | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | Received | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | Received | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | Received | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | 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

August 17, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2008-068

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 7, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: August 17, 2020
Samples Submitted: August 7, 2020
Laboratory Reference: 2008-068
Project: 650-031

Case Narrative

Samples were collected on August 6, 2020 and received by the laboratory on August 7, 2020. 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: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FMW-04-080620 | | | | | |
| Laboratory ID: | 08-068-01 | | | | | |
| Diesel Range Organics | ND | 0.22 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | ND | 0.22 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 133 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-03-080620 | | | | | |
| Laboratory ID: | 08-068-02 | | | | | |
| Diesel Range Organics | ND | 0.22 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | ND | 0.22 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 117 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-02-080620 | | | | | |
| Laboratory ID: | 08-068-03 | | | | | |
| Diesel Range Organics | ND | 0.23 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | ND | 0.23 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 120 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-01-080620 | | | | | |
| Laboratory ID: | 08-068-04 | | | | | |
| Diesel Range Organics | ND | 0.23 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | ND | 0.23 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 122 | 50-150 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0811W1 | | | | | |
| Diesel Range Organics | ND | 0.20 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| Lube Oil Range Organics | ND | 0.20 | NWTPH-Dx | 8-11-20 | 8-11-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 125 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|--------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 08-068-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| <i>Surrogate:</i> | | | | | | | | |
| <i>o-Terphenyl</i> | | | | 133 | 126 | 50-150 | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

VOLATILE ORGANICS EPA 8260D
 page 1 of 2

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------------------|--------|------|-----------|---------------|---------------|-------|
| Client ID: FMW-04-080620 | | | | | | |
| Laboratory ID: 08-068-01 | | | | | | |
| Dichlorodifluoromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloromethane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Vinyl Chloride | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromomethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloroethane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Trichlorofluoromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Acetone | ND | 5.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Iodomethane | ND | 1.3 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Carbon Disulfide | ND | 0.26 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methylene Chloride | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methyl t-Butyl Ether | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Vinyl Acetate | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2,2-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Butanone | ND | 5.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromochloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloroform | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,1-Trichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Carbon Tetrachloride | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Benzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Trichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Dibromomethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromodichloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methyl Isobutyl Ketone | ND | 2.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Toluene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |



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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: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

VOLATILE ORGANICS EPA 8260D

page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------------------|-------------------------|-----------------------|-----------|---------------|---------------|-------|
| Client ID: FMW-04-080620 | | | | | | |
| Laboratory ID: 08-068-01 | | | | | | |
| 1,1,2-Trichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Tetrachloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Hexanone | ND | 2.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Dibromochloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dibromoethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Ethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| m,p-Xylene | 0.69 | 0.40 | EPA 8260D | 8-10-20 | 8-10-20 | |
| o-Xylene | 0.22 | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Styrene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromoform | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Isopropylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,3-Trichloropropane | ND | 0.28 | EPA 8260D | 8-10-20 | 8-10-20 | |
| n-Propylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Chlorotoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 4-Chlorotoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| tert-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| sec-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| p-Isopropyltoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,4-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| n-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Hexachlorobutadiene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Naphthalene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| Dibromofluoromethane | 102 | 75-127 | | | | |
| Toluene-d8 | 100 | 80-127 | | | | |
| 4-Bromofluorobenzene | 96 | 78-125 | | | | |



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: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 1 of 2

Matrix: Water

Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|----------|------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0810W1 | | | | | |
| Dichlorodifluoromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloromethane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Vinyl Chloride | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromomethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloroethane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Trichlorofluoromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Acetone | ND | 5.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Iodomethane | ND | 1.3 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Carbon Disulfide | ND | 0.26 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methylene Chloride | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (trans) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methyl t-Butyl Ether | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Vinyl Acetate | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2,2-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (cis) 1,2-Dichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Butanone | ND | 5.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromochloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chloroform | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,1-Trichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Carbon Tetrachloride | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Benzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Trichloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Dibromomethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromodichloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Chloroethyl Vinyl Ether | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (cis) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Methyl Isobutyl Ketone | ND | 2.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Toluene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| (trans) 1,3-Dichloropropene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |



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

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Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

page 2 of 2

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-----------------------------|------------------|----------------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0810W1 | | | | | |
| 1,1,2-Trichloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Tetrachloroethene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3-Dichloropropane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Hexanone | ND | 2.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Dibromochloromethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dibromoethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Chlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,1,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Ethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| m,p-Xylene | ND | 0.40 | EPA 8260D | 8-10-20 | 8-10-20 | |
| o-Xylene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Styrene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromoform | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Isopropylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Bromobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,1,2,2-Tetrachloroethane | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,3-Trichloropropane | ND | 0.28 | EPA 8260D | 8-10-20 | 8-10-20 | |
| n-Propylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 2-Chlorotoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 4-Chlorotoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3,5-Trimethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| tert-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,4-Trimethylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| sec-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,3-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| p-Isopropyltoluene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,4-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| n-Butylbenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2-Dibromo-3-chloropropane | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,4-Trichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Hexachlorobutadiene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Naphthalene | ND | 1.0 | EPA 8260D | 8-10-20 | 8-10-20 | |
| 1,2,3-Trichlorobenzene | ND | 0.20 | EPA 8260D | 8-10-20 | 8-10-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| Dibromofluoromethane | 100 | 75-127 | | | | |
| Toluene-d8 | 99 | 80-127 | | | | |
| 4-Bromofluorobenzene | 97 | 78-125 | | | | |



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: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**VOLATILE ORGANICS EPA 8260D
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery | RPD | RPD | Flags |
|----------------------|----------|------|-------------|------|------------------|--------|----------|-----|-------|-------|
| | | | | | Recovery | Limits | Limits | | Limit | |
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0810W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| 1,1-Dichloroethene | 9.81 | 9.76 | 10.0 | 10.0 | 98 | 98 | 65-126 | 1 | 19 | |
| Benzene | 9.51 | 9.48 | 10.0 | 10.0 | 95 | 95 | 71-119 | 0 | 16 | |
| Trichloroethene | 9.47 | 9.46 | 10.0 | 10.0 | 95 | 95 | 82-123 | 0 | 18 | |
| Toluene | 9.07 | 9.09 | 10.0 | 10.0 | 91 | 91 | 77-119 | 0 | 18 | |
| Chlorobenzene | 9.66 | 9.57 | 10.0 | 10.0 | 97 | 96 | 80-120 | 1 | 17 | |
| Surrogate: | | | | | | | | | | |
| Dibromofluoromethane | | | | | 101 | 99 | 75-127 | | | |
| Toluene-d8 | | | | | 100 | 100 | 80-127 | | | |
| 4-Bromofluorobenzene | | | | | 101 | 99 | 78-125 | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: FMW-04-080620 | | | | | | |
| Laboratory ID: 08-068-01 | | | | | | |
| Naphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 2-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluorene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Phenanthrene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Anthracene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluoranthene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Pyrene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Chrysene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[b]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 82 | 20 - 106 | | | | |
| Pyrene-d10 | 82 | 26 - 104 | | | | |
| Terphenyl-d14 | 95 | 44 - 127 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|---------------|---------------|---------------|-------|
| Client ID: | FMW-03-080620 | | | | | |
| Laboratory ID: | 08-068-02 | | | | | |
| Naphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | U1 |
| 2-Methylnaphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluorene | ND | 0.17 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Phenanthrene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Anthracene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluoranthene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Pyrene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Chrysene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[b]fluoranthene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| 2-Fluorobiphenyl | 70 | 20 - 106 | | | | |
| Pyrene-d10 | 82 | 26 - 104 | | | | |
| Terphenyl-d14 | 87 | 44 - 127 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|--------|----------|---------------|---------------|---------------|-------|
| Client ID: FMW-02-080620 | | | | | | |
| Laboratory ID: 08-068-03 | | | | | | |
| Naphthalene | 5.4 | 0.52 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 2-Methylnaphthalene | 1.7 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 1-Methylnaphthalene | 1.3 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthene | 2.4 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluorene | 2.1 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Phenanthrene | 2.0 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Anthracene | 0.17 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluoranthene | 0.19 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Pyrene | 0.15 | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Chrysene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[b]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[j,k]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| <i>Surrogate: Percent Recovery Control Limits</i> | | | | | | |
| 2-Fluorobiphenyl | 59 | 20 - 106 | | | | |
| Pyrene-d10 | 76 | 26 - 104 | | | | |
| Terphenyl-d14 | 80 | 44 - 127 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: FMW-01-080620 | | | | | | |
| Laboratory ID: 08-068-04 | | | | | | |
| Naphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 2-Methylnaphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluorene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Phenanthrene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Anthracene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluoranthene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Pyrene | ND | 0.11 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Chrysene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[b]fluoranthene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo(j,k)fluoranthene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.011 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 64 | 20 - 106 | | | | |
| Pyrene-d10 | 76 | 26 - 104 | | | | |
| Terphenyl-d14 | 89 | 44 - 127 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0810W1 | | | | | |
| Naphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 2-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| 1-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthylene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Acenaphthene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluorene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Phenanthrene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Anthracene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Fluoranthene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Pyrene | ND | 0.10 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Chrysene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[b]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[j,k]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[a]pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Dibenz[a,h]anthracene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| Benzo[g,h,i]perylene | ND | 0.010 | EPA 8270E/SIM | 8-10-20 | 8-10-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 61 | 20 - 106 | | | | |
| Pyrene-d10 | 86 | 26 - 104 | | | | |
| Terphenyl-d14 | 83 | 44 - 127 | | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|-------|-------------|-------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0810W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.262 | 0.288 | 0.500 | 0.500 | 52 | 58 | 30 - 98 | 9 | 40 | |
| Acenaphthylene | 0.271 | 0.284 | 0.500 | 0.500 | 54 | 57 | 39 - 106 | 5 | 32 | |
| Acenaphthene | 0.303 | 0.315 | 0.500 | 0.500 | 61 | 63 | 36 - 114 | 4 | 33 | |
| Fluorene | 0.320 | 0.332 | 0.500 | 0.500 | 64 | 66 | 45 - 112 | 4 | 30 | |
| Phenanthrene | 0.352 | 0.353 | 0.500 | 0.500 | 70 | 71 | 51 - 109 | 0 | 24 | |
| Anthracene | 0.367 | 0.371 | 0.500 | 0.500 | 73 | 74 | 49 - 109 | 1 | 25 | |
| Fluoranthene | 0.407 | 0.404 | 0.500 | 0.500 | 81 | 81 | 53 - 115 | 1 | 22 | |
| Pyrene | 0.414 | 0.409 | 0.500 | 0.500 | 83 | 82 | 49 - 129 | 1 | 32 | |
| Benzo[a]anthracene | 0.427 | 0.403 | 0.500 | 0.500 | 85 | 81 | 61 - 123 | 6 | 24 | |
| Chrysene | 0.418 | 0.399 | 0.500 | 0.500 | 84 | 80 | 59 - 114 | 5 | 24 | |
| Benzo[b]fluoranthene | 0.430 | 0.419 | 0.500 | 0.500 | 86 | 84 | 60 - 125 | 3 | 26 | |
| Benzo(j,k)fluoranthene | 0.440 | 0.429 | 0.500 | 0.500 | 88 | 86 | 58 - 121 | 3 | 22 | |
| Benzo[a]pyrene | 0.429 | 0.407 | 0.500 | 0.500 | 86 | 81 | 58 - 118 | 5 | 24 | |
| Indeno(1,2,3-c,d)pyrene | 0.412 | 0.399 | 0.500 | 0.500 | 82 | 80 | 59 - 124 | 3 | 26 | |
| Dibenz[a,h]anthracene | 0.415 | 0.401 | 0.500 | 0.500 | 83 | 80 | 59 - 123 | 3 | 25 | |
| Benzo[g,h,i]perylene | 0.408 | 0.392 | 0.500 | 0.500 | 82 | 78 | 58 - 120 | 4 | 25 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 54 | 57 | 20 - 106 | | | |
| Pyrene-d10 | | | | | 83 | 82 | 26 - 104 | | | |
| Terphenyl-d14 | | | | | 82 | 79 | 44 - 127 | | | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

TOTAL ARSENIC
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|----------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-04-080620 | | | | | |
| Laboratory ID: | 08-068-01 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 8-14-20 | 8-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|---------|---------|--|
| Client ID: | FMW-03-080620 | | | | | |
| Laboratory ID: | 08-068-02 | | | | | |
| Arsenic | 5.7 | 3.3 | EPA 200.8 | 8-14-20 | 8-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|---------|---------|--|
| Client ID: | FMW-02-080620 | | | | | |
| Laboratory ID: | 08-068-03 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 8-14-20 | 8-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|---------|---------|--|
| Client ID: | FMW-01-080620 | | | | | |
| Laboratory ID: | 08-068-04 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 8-14-20 | 8-14-20 | |



Date of Report: August 17, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068
 Project: 650-031

**TOTAL ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0814WM1 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 8-14-20 | 8-14-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 07-326-03 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|------------|------------|-----|-----|----|------------|------------|--------|----|----|
| Laboratory ID: | 07-326-03 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 114 | 126 | 111 | 111 | ND | 103 | 113 | 75-125 | 10 | 20 |





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 methods 8260 & 8270, 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 1 of 1

| | | | | | | |
|---|---|--|--------------|---|---|---|
| Company: <u>Excellen</u> | | Turnaround Request (In working days) | | Laboratory Number: <u>08-068</u> | | |
| Project Number: <u>650-031</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | |
| Project Name: <u>Thompson Field</u> | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | |
| Project Manager: <u>C. Schmitt</u> | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | |
| Sampled by: <u>S. Brown</u> | | <input type="checkbox"/> (other) _____ | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | |
| 1 | FWW-04-080620 | 8/6/20 | 1015 | Gr | 8 | |
| 2 | FWW-03-080620 | | 1150 | | | |
| 3 | FWW-02-080620 | | 1340 | | | |
| 4 | FWW-01-080620 | | 1440 | | | |
|  | | | | | | NWTPH-HCID |
| | | | | | | NWTPH-Gx/BTEX |
| | | | | | | NWTPH-Gx |
| | | | | | | NWTPH-Dx <input checked="" 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 |
| Signature | | Company | Date | Time | Comments/Special Instructions | |
| Relinquished |  | Excellen | 8/6/20 | 0930 | run Total As, if detection run dissolved | |
| Received | <u>Water (water)</u> | OSE | 8/7/20 | 0930 | | |
| 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"/> | |



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

August 21, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2008-068B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on August 7, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

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: August 21, 2020
Samples Submitted: August 7, 2020
Laboratory Reference: 2008-068B
Project: 650-031

Case Narrative

Samples were collected on August 6, 2020 and received by the laboratory on August 7, 2020. 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: August 21, 2020
Samples Submitted: August 7, 2020
Laboratory Reference: 2008-068B
Project: 650-031

DISSOLVED ARSENIC
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|----------------|---------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-03-080620 | | | | | |
| Laboratory ID: | 08-068-02 | | | | | |
| Arsenic | 4.7 | 3.0 | EPA 200.8 | | 8-21-20 | |



Date of Report: August 21, 2020
 Samples Submitted: August 7, 2020
 Laboratory Reference: 2008-068B
 Project: 650-031

**DISSOLVED ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0821D1 | | | | | |
| Arsenic | ND | 3.0 | EPA 200.8 | | 8-21-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-------------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 08-068-02 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | 4.72 | 4.80 | NA | NA | NA | NA | 2 | 20 |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|------|------|------|-----------|-----------|--------|---|----|
| Laboratory ID: | 08-068-02 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 84.2 | 81.4 | 80.0 | 80.0 | 4.72 | 99 | 96 | 75-125 | 3 | 20 |





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 methods 8260 & 8270, 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

Page 1 of 1

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number:

08-068

Company: Excellen
Project Number: 650-031
Project Name: Thompson Field
Project Manager: C. Schmitt
Sampled by: S. Brown

Lab ID

Number of Containers

| | |
|---|--|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-DX (<input checked="" 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 | |
| <u>Total/diss. As</u> | |
| <u>DISSOLVED As</u> | |
| % Moisture | |

Sample Identification

Date Sampled

Time Sampled

Matrix

8/6/20

1015

GL

8

1150

1340

1440

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

October 19, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2009-328

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on September 30, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: October 19, 2020
Samples Submitted: September 30, 2020
Laboratory Reference: 2009-328
Project: 650-031

Case Narrative

Samples were collected on September 30, 2020 and received by the laboratory on September 30, 2020. 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: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FB-10-1.0 | | | | | |
| Laboratory ID: | 09-328-01 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | 73 | 59 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 103 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FB-10-1.0 | | | | | |
| Laboratory ID: | 09-328-01 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 59 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 114 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | FB-12-1.0 | | | | | |
| Laboratory ID: | 09-328-07 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | ND | 58 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 98 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FB-12-1.0 | | | | | |
| Laboratory ID: | 09-328-07 | | | | | |
| Diesel Range Organics | ND | 29 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 58 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 108 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | FB-13-3.0 | | | | | |
| Laboratory ID: | 09-328-11 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | ND | 55 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 95 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FB-13-3.0 | | | | | |
| Laboratory ID: | 09-328-11 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 55 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 97 | 50-150 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 101 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 111 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|------------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | SB1007S1 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Fuel #2 | 102 | 90.0 | NA | NA | NA | NA | 13 | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | NA |
| Surrogate: | | | | | | | | |
| o-Terphenyl | | | | 108 | 102 | 50-150 | | |
| Laboratory ID: | SB1007S1 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Fuel #2 | 130 | 122 | NA | NA | NA | NA | 6 | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Surrogate: | | | | | | | | |
| o-Terphenyl | | | | 131 | 125 | 50-150 | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-10-3.0 | | | | | |
| Laboratory ID: | 09-328-02 | | | | | |
| Naphthalene | 0.048 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | 0.020 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | 0.011 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | 0.033 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | 0.024 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | 0.045 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | 0.016 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | 0.012 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | 0.0083 | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0083 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>54</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>64</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>69</i> | <i>49 - 121</i> | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-11-5.0 | | | | | |
| Laboratory ID: | 09-328-05 | | | | | |
| Naphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 52 | 46 - 113 | | | | |
| Pyrene-d10 | 68 | 45 - 114 | | | | |
| Terphenyl-d14 | 62 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-12-5.0 | | | | | |
| Laboratory ID: | 09-328-08 | | | | | |
| Naphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0080 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 50 | 46 - 113 | | | | |
| Pyrene-d10 | 62 | 45 - 114 | | | | |
| Terphenyl-d14 | 63 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-13-1.0 | | | | | |
| Laboratory ID: | 09-328-10 | | | | | |
| Naphthalene | 0.0087 | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | 0.031 | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | 0.010 | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0082 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 63 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-14-1.0 | | | | | |
| Laboratory ID: | 09-328-13 | | | | | |
| Naphthalene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0078 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 59 | 46 - 113 | | | | |
| Pyrene-d10 | 66 | 45 - 114 | | | | |
| Terphenyl-d14 | 61 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 57 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 70 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 09-328-05 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0676 | 0.0562 | 0.0833 | 0.0833 | ND | 81 | 67 | 51 - 115 | 18 | 26 |
| Acenaphthylene | 0.0589 | 0.0577 | 0.0833 | 0.0833 | ND | 71 | 69 | 53 - 121 | 2 | 24 |
| Acenaphthene | 0.0687 | 0.0599 | 0.0833 | 0.0833 | ND | 82 | 72 | 52 - 121 | 14 | 25 |
| Fluorene | 0.0600 | 0.0610 | 0.0833 | 0.0833 | ND | 72 | 73 | 58 - 127 | 2 | 23 |
| Phenanthrene | 0.0551 | 0.0546 | 0.0833 | 0.0833 | ND | 66 | 66 | 46 - 129 | 1 | 28 |
| Anthracene | 0.0596 | 0.0598 | 0.0833 | 0.0833 | ND | 72 | 72 | 57 - 124 | 0 | 21 |
| Fluoranthene | 0.0597 | 0.0620 | 0.0833 | 0.0833 | ND | 72 | 74 | 46 - 136 | 4 | 29 |
| Pyrene | 0.0625 | 0.0618 | 0.0833 | 0.0833 | ND | 75 | 74 | 41 - 136 | 1 | 32 |
| Benzo[a]anthracene | 0.0607 | 0.0589 | 0.0833 | 0.0833 | ND | 73 | 71 | 56 - 136 | 3 | 25 |
| Chrysene | 0.0568 | 0.0610 | 0.0833 | 0.0833 | ND | 68 | 73 | 49 - 130 | 7 | 22 |
| Benzo[b]fluoranthene | 0.0574 | 0.0594 | 0.0833 | 0.0833 | ND | 69 | 71 | 51 - 135 | 3 | 26 |
| Benzo(j,k)fluoranthene | 0.0577 | 0.0618 | 0.0833 | 0.0833 | ND | 69 | 74 | 56 - 124 | 7 | 23 |
| Benzo[a]pyrene | 0.0591 | 0.0645 | 0.0833 | 0.0833 | ND | 71 | 77 | 54 - 133 | 9 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0543 | 0.0519 | 0.0833 | 0.0833 | ND | 65 | 62 | 52 - 134 | 5 | 20 |
| Dibenz[a,h]anthracene | 0.0570 | 0.0570 | 0.0833 | 0.0833 | ND | 68 | 68 | 58 - 127 | 0 | 17 |
| Benzo[g,h,i]perylene | 0.0570 | 0.0580 | 0.0833 | 0.0833 | ND | 68 | 70 | 54 - 129 | 2 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 58 | 57 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 68 | 70 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 66 | 65 | 49 - 121 | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-20-1.0 | | | | | |
| Laboratory ID: | 09-328-30 | | | | | |
| Naphthalene | 0.11 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Acenaphthylene | 0.042 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Acenaphthene | 0.052 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Fluorene | 0.058 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Phenanthrene | 0.58 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Anthracene | 0.19 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Fluoranthene | 1.3 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Pyrene | 1.1 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[a]anthracene | 0.61 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Chrysene | 0.56 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[b]fluoranthene | 0.52 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | 0.18 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[a]pyrene | 0.46 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.24 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | 0.050 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | 0.23 | 0.036 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 62 | 46 - 113 | | | | |
| Pyrene-d10 | 70 | 45 - 114 | | | | |
| Terphenyl-d14 | 66 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-20-5.0 | | | | | |
| Laboratory ID: | 09-328-31 | | | | | |
| Naphthalene | 91 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| 2-Methylnaphthalene | 39 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| 1-Methylnaphthalene | 23 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Acenaphthylene | 3.2 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Acenaphthene | 110 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Fluorene | 86 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Phenanthrene | 250 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Anthracene | 64 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Fluoranthene | 110 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Pyrene | 84 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[a]anthracene | 27 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Chrysene | 21 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[b]fluoranthene | 19 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | 6.1 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[a]pyrene | 17 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | 7.3 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | 7.4 | 2.0 | EPA 8270E/SIM | 10-5-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | --- | 46 - 113 | | | | S |
| Pyrene-d10 | --- | 45 - 114 | | | | S |
| Terphenyl-d14 | --- | 49 - 121 | | | | S |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-21-1.0 | | | | | |
| Laboratory ID: | 09-328-33 | | | | | |
| Naphthalene | 0.084 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| 2-Methylnaphthalene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| 1-Methylnaphthalene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Acenaphthylene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Acenaphthene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Fluorene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Phenanthrene | 0.13 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Anthracene | 0.046 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Fluoranthene | 0.18 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Pyrene | 0.16 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[a]anthracene | 0.076 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Chrysene | 0.11 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[b]fluoranthene | 0.12 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo(j,k)fluoranthene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[a]pyrene | 0.094 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.052 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Dibenz[a,h]anthracene | ND | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[g,h,i]perylene | 0.063 | 0.038 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 61 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 68 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-21-5.0 | | | | | |
| Laboratory ID: | 09-328-35 | | | | | |
| Naphthalene | 0.027 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| 2-Methylnaphthalene | 0.011 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| 1-Methylnaphthalene | 0.0087 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Acenaphthylene | ND | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Acenaphthene | 0.016 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Fluorene | 0.016 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Phenanthrene | 0.13 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Anthracene | 0.031 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Fluoranthene | 0.17 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Pyrene | 0.18 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[a]anthracene | 0.073 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Chrysene | 0.075 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[b]fluoranthene | 0.078 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo(j,k)fluoranthene | 0.029 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[a]pyrene | 0.079 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.047 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Dibenz[a,h]anthracene | 0.0096 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| Benzo[g,h,i]perylene | 0.053 | 0.0076 | EPA 8270E/SIM | 10-5-20 | 10-6-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 63 | 46 - 113 | | | | |
| Pyrene-d10 | 75 | 45 - 114 | | | | |
| Terphenyl-d14 | 72 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1005S2 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 10-5-20 | 10-5-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 73 | 46 - 113 | | | | |
| Pyrene-d10 | 74 | 45 - 114 | | | | |
| Terphenyl-d14 | 75 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 10-025-22 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0617 | 0.0621 | 0.0833 | 0.0833 | ND | 74 | 75 | 51 - 115 | 1 | 26 |
| Acenaphthylene | 0.0626 | 0.0647 | 0.0833 | 0.0833 | ND | 75 | 78 | 53 - 121 | 3 | 24 |
| Acenaphthene | 0.0637 | 0.0636 | 0.0833 | 0.0833 | ND | 76 | 76 | 52 - 121 | 0 | 25 |
| Fluorene | 0.0613 | 0.0639 | 0.0833 | 0.0833 | ND | 74 | 77 | 58 - 127 | 4 | 23 |
| Phenanthrene | 0.0601 | 0.0610 | 0.0833 | 0.0833 | ND | 72 | 73 | 46 - 129 | 1 | 28 |
| Anthracene | 0.0621 | 0.0630 | 0.0833 | 0.0833 | ND | 75 | 76 | 57 - 124 | 1 | 21 |
| Fluoranthene | 0.0603 | 0.0588 | 0.0833 | 0.0833 | ND | 72 | 71 | 46 - 136 | 3 | 29 |
| Pyrene | 0.0607 | 0.0624 | 0.0833 | 0.0833 | ND | 73 | 75 | 41 - 136 | 3 | 32 |
| Benzo[a]anthracene | 0.0652 | 0.0652 | 0.0833 | 0.0833 | ND | 78 | 78 | 56 - 136 | 0 | 25 |
| Chrysene | 0.0616 | 0.0631 | 0.0833 | 0.0833 | ND | 74 | 76 | 49 - 130 | 2 | 22 |
| Benzo[b]fluoranthene | 0.0603 | 0.0680 | 0.0833 | 0.0833 | ND | 72 | 82 | 51 - 135 | 12 | 26 |
| Benzo(j,k)fluoranthene | 0.0664 | 0.0585 | 0.0833 | 0.0833 | ND | 80 | 70 | 56 - 124 | 13 | 23 |
| Benzo[a]pyrene | 0.0681 | 0.0679 | 0.0833 | 0.0833 | ND | 82 | 82 | 54 - 133 | 0 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0610 | 0.0601 | 0.0833 | 0.0833 | ND | 73 | 72 | 52 - 134 | 1 | 20 |
| Dibenz[a,h]anthracene | 0.0639 | 0.0634 | 0.0833 | 0.0833 | ND | 77 | 76 | 58 - 127 | 1 | 17 |
| Benzo[g,h,i]perylene | 0.0641 | 0.0636 | 0.0833 | 0.0833 | ND | 77 | 76 | 54 - 129 | 1 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 67 | 67 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 68 | 70 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 73 | 72 | 49 - 121 | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**TOTAL ARSENIC
 EPA 6010D**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FB-10-1.0 | | | | | |
| Laboratory ID: | 09-328-01 | | | | | |
| Arsenic | ND | 12 | EPA 6010D | 10-12-20 | 10-12-20 | |

| | | | | | | |
|-------------------|------------------|----|-----------|----------|----------|--|
| Client ID: | FB-12-1.0 | | | | | |
| Laboratory ID: | 09-328-07 | | | | | |
| Arsenic | ND | 12 | EPA 6010D | 10-12-20 | 10-12-20 | |

| | | | | | | |
|-------------------|------------------|----|-----------|----------|----------|--|
| Client ID: | FB-13-3.0 | | | | | |
| Laboratory ID: | 09-328-11 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 10-12-20 | 10-12-20 | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**TOTAL ARSENIC
 EPA 6010D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1012SM2 | | | | | |
| Arsenic | ND | 5.0 | EPA 6010D | 10-12-20 | 10-12-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 10-106-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|-----|-----|----|-----------|-----------|--------|---|----|
| Laboratory ID: | 10-106-01 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 93.2 | 96.3 | 100 | 100 | ND | 93 | 96 | 75-125 | 3 | 20 |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-16-1.0 | | | | | |
| Laboratory ID: | 09-328-18 | | | | | |
| Naphthalene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | 0.041 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | 0.0088 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.083 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | 0.078 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | 0.040 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | 0.051 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | 0.073 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | 0.017 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | 0.052 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.042 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | 0.038 | 0.0079 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>66</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>72</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>69</i> | <i>49 - 121</i> | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-17-1.0 | | | | | |
| Laboratory ID: | 09-328-21 | | | | | |
| Naphthalene | 0.0094 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | 0.0087 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | 0.024 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | 0.023 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.13 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | 0.12 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | 0.093 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | 0.079 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | 0.13 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | 0.030 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | 0.091 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.058 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | 0.010 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | 0.052 | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>69</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>71</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>69</i> | <i>49 - 121</i> | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-17-5.0 | | | | | |
| Laboratory ID: | 09-328-22 | | | | | |
| Naphthalene | 0.21 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | 0.14 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | 0.12 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | 0.0083 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | 0.26 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | 0.32 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | 0.96 | 0.039 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Anthracene | 0.22 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.81 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | 0.76 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | 0.28 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | 0.29 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | 0.28 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | 0.073 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | 0.26 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.14 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | 0.029 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | 0.13 | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 75 | 46 - 113 | | | | |
| Pyrene-d10 | 82 | 45 - 114 | | | | |
| Terphenyl-d14 | 77 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-19-1.0 | | | | | |
| Laboratory ID: | 09-328-27 | | | | | |
| Naphthalene | 0.024 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | 0.084 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | 0.020 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | 0.086 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | 0.24 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.92 | 0.041 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Pyrene | 0.99 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | 0.93 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | 1.0 | 0.041 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo[b]fluoranthene | 0.92 | 0.041 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo(j,k)fluoranthene | 0.28 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | 0.68 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.39 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | 0.076 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | 0.29 | 0.0083 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>55</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>58</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>53</i> | <i>49 - 121</i> | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-19-4.0 | | | | | |
| Laboratory ID: | 09-328-28 | | | | | |
| Naphthalene | 0.028 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | 0.025 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | 0.022 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | 0.013 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | 0.018 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | 0.046 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | 0.0080 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.029 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | 0.035 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | 0.014 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | 0.015 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | 0.015 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | 0.014 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.0083 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | 0.0089 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 72 | 46 - 113 | | | | |
| Pyrene-d10 | 73 | 45 - 114 | | | | |
| Terphenyl-d14 | 73 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-20-8.0 | | | | |
| Laboratory ID: | | 09-328-32 | | | | |
| Naphthalene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0091 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 74 | 46 - 113 | | | | |
| Pyrene-d10 | 76 | 45 - 114 | | | | |
| Terphenyl-d14 | 73 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-22-1.0 | | | | | |
| Laboratory ID: | 09-328-37 | | | | | |
| Naphthalene | 0.023 | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | 0.0076 | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | 0.0077 | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0074 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 76 | 46 - 113 | | | | |
| Pyrene-d10 | 76 | 45 - 114 | | | | |
| Terphenyl-d14 | 75 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 74 | 46 - 113 | | | | |
| Pyrene-d10 | 82 | 45 - 114 | | | | |
| Terphenyl-d14 | 76 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S2 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 10-137-04 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0496 | 0.0547 | 0.0833 | 0.0833 | ND | 60 | 66 | 51 - 115 | 10 | 26 |
| Acenaphthylene | 0.0507 | 0.0557 | 0.0833 | 0.0833 | ND | 61 | 67 | 53 - 121 | 9 | 24 |
| Acenaphthene | 0.0527 | 0.0562 | 0.0833 | 0.0833 | ND | 63 | 67 | 52 - 121 | 6 | 25 |
| Fluorene | 0.0511 | 0.0553 | 0.0833 | 0.0833 | ND | 61 | 66 | 58 - 127 | 8 | 23 |
| Phenanthrene | 0.0559 | 0.0591 | 0.0833 | 0.0833 | ND | 67 | 71 | 46 - 129 | 6 | 28 |
| Anthracene | 0.0545 | 0.0555 | 0.0833 | 0.0833 | ND | 65 | 67 | 57 - 124 | 2 | 21 |
| Fluoranthene | 0.0533 | 0.0557 | 0.0833 | 0.0833 | ND | 64 | 67 | 46 - 136 | 4 | 29 |
| Pyrene | 0.0547 | 0.0558 | 0.0833 | 0.0833 | ND | 66 | 67 | 41 - 136 | 2 | 32 |
| Benzo[a]anthracene | 0.0664 | 0.0672 | 0.0833 | 0.0833 | ND | 80 | 81 | 56 - 136 | 1 | 25 |
| Chrysene | 0.0589 | 0.0596 | 0.0833 | 0.0833 | ND | 71 | 72 | 49 - 130 | 1 | 22 |
| Benzo[b]fluoranthene | 0.0627 | 0.0576 | 0.0833 | 0.0833 | ND | 75 | 69 | 51 - 135 | 8 | 26 |
| Benzo(j,k)fluoranthene | 0.0547 | 0.0585 | 0.0833 | 0.0833 | ND | 66 | 70 | 56 - 124 | 7 | 23 |
| Benzo[a]pyrene | 0.0600 | 0.0601 | 0.0833 | 0.0833 | ND | 72 | 72 | 54 - 133 | 0 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0584 | 0.0594 | 0.0833 | 0.0833 | ND | 70 | 71 | 52 - 134 | 2 | 20 |
| Dibenz[a,h]anthracene | 0.0555 | 0.0544 | 0.0833 | 0.0833 | ND | 67 | 65 | 58 - 127 | 2 | 17 |
| Benzo[g,h,i]perylene | 0.0553 | 0.0556 | 0.0833 | 0.0833 | ND | 66 | 67 | 54 - 129 | 1 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 52 | 57 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 61 | 60 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 63 | 61 | 49 - 121 | | |



Date of Report: October 19, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328
 Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|-----------|-----------|------------|---------------|
| FB-10-1.0 | 09-328-01 | 15 | 10-7-20 |
| FB-10-3.0 | 09-328-02 | 20 | 10-7-20 |
| FB-11-5.0 | 09-328-05 | 17 | 10-7-20 |
| FB-12-1.0 | 09-328-07 | 13 | 10-7-20 |
| FB-12-5.0 | 09-328-08 | 16 | 10-7-20 |
| FB-13-1.0 | 09-328-10 | 19 | 10-7-20 |
| FB-13-3.0 | 09-328-11 | 9 | 10-7-20 |
| FB-14-1.0 | 09-328-13 | 15 | 10-7-20 |
| FB-15-1.0 | 09-328-15 | 15 | 10-13-20 |
| FB-15-4.0 | 09-328-16 | 16 | 10-13-20 |
| FB-16-1.0 | 09-328-18 | 15 | 10-13-20 |
| FB-16-3.0 | 09-328-19 | 11 | 10-13-20 |
| FB-16-7.5 | 09-328-20 | 65 | 10-13-20 |
| FB-17-1.0 | 09-328-21 | 18 | 10-13-20 |
| FB-17-5.0 | 09-328-22 | 14 | 10-13-20 |
| FB-17-9.0 | 09-328-23 | 78 | 10-13-20 |
| FB-18-5.0 | 09-328-25 | 12 | 10-13-20 |
| FB-18-8.0 | 09-328-26 | 81 | 10-13-20 |
| FB-19-1.0 | 09-328-27 | 19 | 10-13-20 |
| FB-19-4.0 | 09-328-28 | 12 | 10-13-20 |
| FB-19-8.5 | 09-328-29 | 34 | 10-13-20 |
| FB-20-1.0 | 09-328-30 | 9 | 10-5-20 |
| FB-20-5.0 | 09-328-31 | 17 | 10-5-20 |
| FB-20-8.0 | 09-328-32 | 26 | 10-13-20 |
| FB-21-1.0 | 09-328-33 | 12 | 10-5-20 |
| FB-21-5.0 | 09-328-35 | 13 | 10-5-20 |
| FB-22-1.0 | 09-328-37 | 10 | 10-13-20 |
| FB-22-4.0 | 09-328-38 | 19 | 10-13-20 |





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 methods 8260 & 8270, 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

A

**Turnaround Request
(in working days)**
(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

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

☒ 4 DAYS - PATH
(other) _____

| Date | Time | Matrix |
|---------|---------|--------|
| Sampled | Sampled | |

Number of Containers

| |
|---|
| NWTPH-HCID |
| NWTPH-Gx/BTEX |
| NWTPH-Gx |
| NWTPH-Dx (X Acid / SG Clean-up) WITH AND WITHOUT CLEANUP |
| 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 |

TOTAL ARSENIC
4 DAY TAT

| | |
|------------|--|
| % Moisture | |
|------------|--|

[illegible]



| | Signature | Company | Date | Time | Comments/Special Instructions |
|---------------|-----------|---------------|---------|------|---|
| Relinquished | | Landry | 9-20-20 | 1553 | Hold all samples |
| Received | | OSCE | 9/22/20 | 1553 | PA will call w/selected |
| Relinquished | | | | | and yes X-Added 10/5/2020-2 |
| Received | | | | | PAHS- 4 day TAT AS MA ALL OTHERS- STD. TAT |
| Relinquished | | | | | Added 10/21/2020. DS (GTA) O-EXTRACT AND HOLD Added 10/21/20 |
| Received | | | | | Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> |
| Reviewed/Date | | Reviewed/Date | | | Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> |



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

Chain of Custody

Page 2 of 4

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|--|--|--|--|--|--|----------------------------------|--|--|--|--------------|--|--|--|--------|--|--|--|----------------------|--|--|--|--|--|--|--|-------------------------------|--|--|--|--|--|--|--|--|--|
| ENVIRONMENTAL INC. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.orisite-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 type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) <input type="checkbox"/> <u>SEE PAGE 1</u> (other) | | | | Laboratory Number: 09-328 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Company: <u>Forceller</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>SWB</u> | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | | | | Sample Identification | | | | Date Sampled | | | | Time Sampled | | | | Matrix | | | | Number of Containers | | | | | | | | | | | | | | | | | |
| 11 | | | | FB-13-3.0 | | | | 9-30-20 | | | | 1030 | | | | Soil | | | | 1 | | | | NWTPH-HCID | | | | | | | | | | | | | |
| 12 | | | | FB-13-6.0 | | | | | | | | 1030 | | | | | | | | | | | | NWTPH-Gx/BTEX | | | | | | | | | | | | | |
| 13 | | | | FB-14-1.0 | | | | | | | | 1030 | | | | | | | | | | | | NWTPH-Gx | | | | | | | | | | | | | |
| 14 | | | | FB-14-5.0 | | | | | | | | 1037 | | | | | | | | | | | | NWTPH-Dx (X Acid / SG Clean-up) WITH AND WITHOUT | | | | | | | | | | | | | |
| 15 | | | | FB-15-1.0 | | | | | | | | 1120 | | | | | | | | | | | | Volatiles 8260C | | | | | | | | | | | | | |
| 16 | | | | FB-15-4.0 | | | | | | | | 1125 | | | | | | | | | | | | Halogenated Volatiles 8260C | | | | | | | | | | | | | |
| 17 | | | | FB-15-8.0 | | | | | | | | 1128 | | | | | | | | | | | | EDB EPA 8011 (Waters Only) | | | | | | | | | | | | | |
| 18 | | | | FB-16-1.0 | | | | | | | | 1135 | | | | | | | | | | | | Semivolatiles 8270D/SIM (with low-level PAHs) | | | | | | | | | | | | | |
| 19 | | | | FB-16-3.0 | | | | | | | | 1140 | | | | | | | | | | | | PAHs 8270D/SIM (low-level) | | | | | | | | | | | | | |
| 20 | | | | FB-16-7.5 | | | | V | | | | 1145 | | | | V | | | | V | | | | PCBs 8082A | | | | | | | | | | | | | |
| | | | | Signature | | | | | | | | Company | | | | | | | | Date | | | | Time | | | | Comments/Special Instructions | | | | | | | | | |
| Relinquished | | | |  | | | | | | | | Forceller | | | | | | | | 9-30-20 | | | | 1553 | | | | | | | | | | | | | |
| Received | | | |  | | | | | | | | C. Schmitt | | | | | | | | 9/30/20 | | | | 1553 | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Chain of Custody

Page 3 of 7

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



Chain of Custody

Page 4 of 4

| | | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------------|-----------------------|-------------------------|---------------------|------------------|---|---|---------------|----------|---|-----------------|-----------------------------|----------------------------|--|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|------------|--|
| Company: <u>Farellon</u> | | | | | | (Check One) | | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-C31</u> | | | | | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | | | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | | | | | <input type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) | | | | | | | | | | | | | | | | | | |
| Sampled by: <u>SJB</u> | | | | | | <input checked="" type="checkbox"/> SEE PAGE 1 (other) | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | 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 | |
| 31 | FB-20-5.0 | 9-30-20 | 1350 | Soil | 1 | | | | | | | | X | X | | | | | | | | | X | |
| 32 | FB-20-8.0 | | 1355 | | | | | | | | | | X | X | | | | | | | | | X | |
| 33 | FB-21-1.0 | | 1400 | | | | | | | | | | X | X | | | | | | | | | X | |
| 34 | FB-21-1.3 | | 1402 | | | | | | | | | | | | | | | | | | | | X | |
| 35 | FB-21-5.0 | | 1410 | | | | | | | | | | X | X | | | | | | | | | X | |
| 36 | FB-21-9.0 | | 1415 | | | | | | | | | | | | | | | | | | | | X | |
| 37 | FB-22-1.0 | | 1425 | | | | | | | | | | X | X | | | | | | | | | X | |
| 38 | FB-22-4.0 | | 1430 | | | | | | | | | | | O | | | | | | | | | O | |
| 39 | FB-22-8.0 | | 1435 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature _____ | | Company <u>Farellon</u> | Date <u>9-30-20</u> | Time <u>1553</u> | Comments/Special Instructions | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | 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"/> | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | Reviewed/Date | | | | | | | | | | | | | | | | | | | | | | |



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

October 23, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2009-328B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on September 30, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: October 23, 2020
Samples Submitted: September 30, 2020
Laboratory Reference: 2009-328B
Project: 650-031

Case Narrative

Samples were collected on September 30, 2020 and received by the laboratory on September 30, 2020. 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: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-17-9.0 | | | | |
| Laboratory ID: | | 09-328-23 | | | | |
| Naphthalene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 2-Methylnaphthalene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 1-Methylnaphthalene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthylene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluorene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Phenanthrene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Anthracene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluoranthene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Pyrene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]anthracene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Chrysene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[b]fluoranthene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo(j,k)fluoranthene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]pyrene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Dibenz[a,h]anthracene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[g,h,i]perylene | ND | 0.030 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 83 | 46 - 113 | | | | |
| Pyrene-d10 | 87 | 45 - 114 | | | | |
| Terphenyl-d14 | 106 | 49 - 121 | | | | |



Date of Report: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-18-5.0 | | | | | |
| Laboratory ID: | 09-328-25 | | | | | |
| Naphthalene | 0.013 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 2-Methylnaphthalene | 0.011 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 1-Methylnaphthalene | 0.0096 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthylene | ND | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthene | 0.0077 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluorene | ND | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Phenanthrene | 0.023 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Anthracene | ND | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluoranthene | 0.031 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Pyrene | 0.035 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]anthracene | 0.020 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Chrysene | 0.021 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[b]fluoranthene | 0.020 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]pyrene | 0.018 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.0095 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Dibenz[a,h]anthracene | ND | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[g,h,i]perylene | 0.0082 | 0.0076 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>83</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>85</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>100</i> | <i>49 - 121</i> | | | | |



Date of Report: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-18-8.0 | | | | |
| Laboratory ID: | | 09-328-26 | | | | |
| Naphthalene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| 2-Methylnaphthalene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| 1-Methylnaphthalene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Acenaphthylene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Acenaphthene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Fluorene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Phenanthrene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Anthracene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Fluoranthene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Pyrene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Benzo[a]anthracene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Chrysene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Benzo[b]fluoranthene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Benzo(j,k)fluoranthene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Benzo[a]pyrene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Dibenz[a,h]anthracene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| Benzo[g,h,i]perylene | ND | 0.035 | EPA 8270E/SIM | 10-13-20 | 10-23-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 78 | 46 - 113 | | | | |
| Pyrene-d10 | 86 | 45 - 114 | | | | |
| Terphenyl-d14 | 99 | 49 - 121 | | | | |



Date of Report: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 10-13-20 | 10-13-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 74 | 46 - 113 | | | | |
| Pyrene-d10 | 82 | 45 - 114 | | | | |
| Terphenyl-d14 | 76 | 49 - 121 | | | | |



Date of Report: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S2 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 23, 2020
 Samples Submitted: September 30, 2020
 Laboratory Reference: 2009-328B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 10-137-04 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0496 | 0.0547 | 0.0833 | 0.0833 | ND | 60 | 66 | 51 - 115 | 10 | 26 |
| Acenaphthylene | 0.0507 | 0.0557 | 0.0833 | 0.0833 | ND | 61 | 67 | 53 - 121 | 9 | 24 |
| Acenaphthene | 0.0527 | 0.0562 | 0.0833 | 0.0833 | ND | 63 | 67 | 52 - 121 | 6 | 25 |
| Fluorene | 0.0511 | 0.0553 | 0.0833 | 0.0833 | ND | 61 | 66 | 58 - 127 | 8 | 23 |
| Phenanthrene | 0.0559 | 0.0591 | 0.0833 | 0.0833 | ND | 67 | 71 | 46 - 129 | 6 | 28 |
| Anthracene | 0.0545 | 0.0555 | 0.0833 | 0.0833 | ND | 65 | 67 | 57 - 124 | 2 | 21 |
| Fluoranthene | 0.0533 | 0.0557 | 0.0833 | 0.0833 | ND | 64 | 67 | 46 - 136 | 4 | 29 |
| Pyrene | 0.0547 | 0.0558 | 0.0833 | 0.0833 | ND | 66 | 67 | 41 - 136 | 2 | 32 |
| Benzo[a]anthracene | 0.0664 | 0.0672 | 0.0833 | 0.0833 | ND | 80 | 81 | 56 - 136 | 1 | 25 |
| Chrysene | 0.0589 | 0.0596 | 0.0833 | 0.0833 | ND | 71 | 72 | 49 - 130 | 1 | 22 |
| Benzo[b]fluoranthene | 0.0627 | 0.0576 | 0.0833 | 0.0833 | ND | 75 | 69 | 51 - 135 | 8 | 26 |
| Benzo(j,k)fluoranthene | 0.0547 | 0.0585 | 0.0833 | 0.0833 | ND | 66 | 70 | 56 - 124 | 7 | 23 |
| Benzo[a]pyrene | 0.0600 | 0.0601 | 0.0833 | 0.0833 | ND | 72 | 72 | 54 - 133 | 0 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0584 | 0.0594 | 0.0833 | 0.0833 | ND | 70 | 71 | 52 - 134 | 2 | 20 |
| Dibenz[a,h]anthracene | 0.0555 | 0.0544 | 0.0833 | 0.0833 | ND | 67 | 65 | 58 - 127 | 2 | 17 |
| Benzo[g,h,i]perylene | 0.0553 | 0.0556 | 0.0833 | 0.0833 | ND | 66 | 67 | 54 - 129 | 1 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 52 | 57 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 61 | 60 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 63 | 61 | 49 - 121 | | |



Date of Report: October 23, 2020
Samples Submitted: September 30, 2020
Laboratory Reference: 2009-328B
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|------------------|---------------|-------------------|----------------------|
| FB-17-9.0 | 09-328-23 | 78 | 10-13-20 |
| FB-18-5.0 | 09-328-25 | 12 | 10-13-20 |
| FB-18-8.0 | 09-328-26 | 81 | 10-13-20 |





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 methods 8260 & 8270, 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

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

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

☒ 4 days - PAHs
(other) 05 months

Laboratory Number:

09-328

Company: Facility
Project Number: 650-031
Project Name: Thompson Field
Project Manager: C. Schmitt
Sampled by: SMR

Lab ID Sample Identification

Number of Containers

| | |
|---|---|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-Dx (Acid / SG Clean-up) | X |
| Volatiles 8260C | |
| Halogenated Volatiles 8260C | |
| EDB EPA 8011 (Waters Only) | |
| Semivolatiles 8270D/SIM (with low-level PAHs) | X |
| 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 | |
| TOTAL ARSENIC | X |
| 4 DAY TAT | |
| % Moisture | X |

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
|--------|-----------------------|--------------|--------------|--------|----------------------|
| 1 | FB-10-1.0 | 9-30-20 | 0925 | Soil | 1 |
| 2 | FB-10-3.0 | | 0930 | | |
| 3 | FB-10-8.5 | | 0935 | | |
| 4 | FB-11-1.0 | | 0943 | | |
| 5 | FB-11-5.0 | | 0945 | | |
| 6 | FB-11-8.0 | | 0950 | | |
| 7 | FB-12-1.0 | | 0958 | | |
| 8 | FB-12-5.0 | | 1000 | | |
| 9 | FB-12-9.0 | | 1003 | | |
| 10 | FB-13-1.0 | | 1018 | | |

Signature _____ Company _____ Date _____ Time _____

Relinquished _____ Received _____ Relinquished _____ Received _____ Relinquished _____ Received _____

Reviewed/Date _____ Reviewed/Date _____

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

Added 10/21/2020. P3 (STA)

Added 10/15/2020. 08
PAHs - 4 day TAT AS MARKED
ALL OTHERS - STD. TAT
O-EXTRACT AND HOLD
Added 10/12/20

Data Package: Standard ☐ Level III ☐ Level IV ☐



Page 2 of 4

Phone: (425) 883-3881 • www.onsite-env.com

Farellan

650-031

Project Name: Thompson Field

Completed by: C. Schmitt

84B

| | | | | | |
|--|-----------|-----------------------|------|---|------|
| CIVIL-ENGINEERING INC. | | | | | |
| Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.crsite-env.com | | | | | |
| Company: | | Farrellen | | | |
| Project Number: | | 650-031 | | | |
| Project Name: | | Thompson Field | | | |
| Project Manager: | | C. Schmitt | | | |
| Sampled by: | | SMB | | | |
| Lab ID | | Sample Identification | | | |
| 11 | FB-13-3.0 | 9-30-20 | 1020 | Soil | 1 |
| 12 | FB-13-6.0 | | 1024 | | |
| 13 | FB-14-1.0 | | 1030 | | |
| 14 | FB-14-5.0 | | 1037 | | |
| 15 | FB-15-1.0 | | 1120 | | |
| 16 | FB-15-4.0 | | 1125 | | |
| 17 | FB-15-8.0 | | 1128 | | |
| 18 | FB-16-1.0 | | 1135 | | |
| 19 | FB-16-3.0 | | 1140 | | |
| 20 | FB-16-7.5 | | 1145 | | |
| Signature | | Company | | Date | Time |
| Relinquished | | Farrellen | | 9-30-20 | 1553 |
| Received | | COE | | 9/30/20 | 1553 |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | |
| Reviewed/Date | | Reviewed/Date | | Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> | |
| Laboratory Number: 09-328 | | | | | |
| 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 type="checkbox"/> Standard (7 Days) (TTPH analysis 5 Days) | | | | | |
| <input checked="" type="checkbox"/> See Page 1 (other) | | | | | |
| Number of Containers | | | | | |
| NWTPH-HCID | | | | | |
| NWTPH-Gx/BTEX | | | | | |
| NWTPH-Gx | | | | | |
| NWTPH-Dx (<input checked="" type="checkbox"/> Acid / SG Clean-up) WITH AND WITHOUT | | | | | |
| 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 | | | | | |
| TCPLP Metals | | | | | |
| HEM (oil and grease) 1664A | | | | | |
| TOTAL ARSENIC | | | | | |
| % Moisture | | | | | |



**OnSite
Environmental Inc.**

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

Chain of Custody

Company:

Facility

Project Number:

650-031

Project Name:

Thompson Field

Project Manager:

C. Schmitt

Sampled by:

3MB

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

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

☒ SEE PAGE 1
(other)

Lab ID

Sample Identification

Date Sampled

Time Sampled

Matrix

Number of Containers

NWTPH-HCID

NWTPH-Gx/BTEX

NWTPH-Gx

NWTPH-Dx (☐ Acid / SG Clean-up)

Volatiles 8260C

Halogenated Volatiles 8260C

EDB EPA 8011 (Waters Only)

Semivolatiles 8270D/SIM
(with low-level PAHs)

PAHs 8270D/SIM (low-level)

PCBs 8082A

Organochlorine Pesticides 8081B

Organophosphorus Pesticides 8270D/SIM

Chlorinated Acid Herbicides 8151A

Total RCRA Metals

Total MTCA Metals

TCLP Metals

HEM (oil and grease) 1664A

% Moisture



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

October 19, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2010-012

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 1, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

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: October 19, 2020
Samples Submitted: October 1, 2020
Laboratory Reference: 2010-012
Project: 650-031

Case Narrative

Samples were collected on October 1, 2020 and received by the laboratory on October 1, 2020. 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: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FB-26-5.0 | | | | | |
| Laboratory ID: | 10-012-13 | | | | | |
| Diesel Range Organics | ND | 56 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | 310 | 110 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 86 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FB-26-5.0 | | | | | |
| Laboratory ID: | 10-012-13 | | | | | |
| Diesel Range Organics | ND | 56 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 110 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 90 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | FMW-05-1.0 | | | | | |
| Laboratory ID: | 10-012-18 | | | | | |
| Diesel Range Organics | ND | 30 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil | 210 | 61 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 101 | 50-150 | | | | |

| | | | | | | |
|-----------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-05-1.0 | | | | | |
| Laboratory ID: | 10-012-18 | | | | | |
| Diesel Range Organics | ND | 30 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil | 120 | 61 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 110 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|--|
| Client ID: | FMW-06-5.0 | | | | | |
| Laboratory ID: | 10-012-22 | | | | | |
| Diesel Range Organics | ND | 81 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | 300 | 160 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 80 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-06-5.0 | | | | | |
| Laboratory ID: | 10-012-22 | | | | | |
| Diesel Range Organics | ND | 81 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 160 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 87 | 50-150 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FMW-07-1.0 | | | | | |
| Laboratory ID: | 10-012-24 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | ND | 57 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 90 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|---------|---------|----|
| Client ID: | FMW-07-1.0 | | | | | |
| Laboratory ID: | 10-012-24 | | | | | |
| Diesel Range Organics | ND | 28 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 57 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 111 | 50-150 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-7-20 | 10-7-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 101 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Diesel Range Organics | ND | 25 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Lube Oil Range Organics | ND | 50 | NWTPH-Dx | 10-7-20 | 10-7-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 111 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|---------------------|------------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | SB1007S1 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Fuel #2 | 102 | 90.0 | NA | NA | NA | NA | 13 | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | NA |
| Surrogate: | | | | | | | | |
| <i>o</i> -Terphenyl | | | | 108 | 102 | 50-150 | | |
| Laboratory ID: | SB1007S1 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Fuel #2 | 130 | 122 | NA | NA | NA | NA | 6 | NA |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Surrogate: | | | | | | | | |
| <i>o</i> -Terphenyl | | | | 131 | 125 | 50-150 | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-24-3.0 | | | | | |
| Laboratory ID: | 10-012-05 | | | | | |
| Naphthalene | 0.16 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | 0.12 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | 0.078 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | 0.13 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | 0.26 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | 0.78 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | 0.12 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | 0.40 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | 0.37 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | 0.14 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | 0.14 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | 0.15 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo(j,k)fluoranthene | 0.048 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | 0.14 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.075 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | 0.088 | 0.038 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 51 | 46 - 113 | | | | |
| Pyrene-d10 | 64 | 45 - 114 | | | | |
| Terphenyl-d14 | 56 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FB-24-6.0 | | | | |
| Laboratory ID: | | 10-012-06 | | | | |
| Naphthalene | 0.017 | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo(j,k)fluoranthene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | ND | 0.015 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 53 | 46 - 113 | | | | |
| Pyrene-d10 | 56 | 45 - 114 | | | | |
| Terphenyl-d14 | 61 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-25-1.0 | | | | | |
| Laboratory ID: | 10-012-08 | | | | | |
| Naphthalene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | 0.0086 | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | 0.0084 | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | ND | 0.0073 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 58 | 46 - 113 | | | | |
| Pyrene-d10 | 71 | 45 - 114 | | | | |
| Terphenyl-d14 | 68 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-25-3.0 | | | | | |
| Laboratory ID: | 10-012-09 | | | | | |
| Naphthalene | 0.24 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | 0.052 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | 0.041 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | 0.050 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | 0.047 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | 0.21 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | 0.037 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | 0.20 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | 0.17 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | 0.069 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | 0.069 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | 0.059 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[j,k]fluoranthene | 0.023 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | 0.053 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.028 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | 0.031 | 0.0075 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>2-Fluorobiphenyl</i> | <i>59</i> | <i>46 - 113</i> | | | | |
| <i>Pyrene-d10</i> | <i>67</i> | <i>45 - 114</i> | | | | |
| <i>Terphenyl-d14</i> | <i>66</i> | <i>49 - 121</i> | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-25-7.5 | | | | | |
| Laboratory ID: | 10-012-10 | | | | | |
| Naphthalene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | ND | 0.0090 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 67 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-27-1.0 | | | | | |
| Laboratory ID: | 10-012-15 | | | | | |
| Naphthalene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | 0.042 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | 0.0086 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | 0.043 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | 0.038 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | 0.017 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | 0.017 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | 0.019 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo(j,k)fluoranthene | 0.0080 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | 0.016 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.010 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | 0.011 | 0.0071 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 63 | 46 - 113 | | | | |
| Pyrene-d10 | 73 | 45 - 114 | | | | |
| Terphenyl-d14 | 69 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-27-5.0 | | | | | |
| Laboratory ID: | 10-012-16 | | | | | |
| Naphthalene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 2-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| 1-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthylene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Acenaphthene | 0.010 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluorene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Phenanthrene | 0.064 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Anthracene | 0.021 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Fluoranthene | 0.079 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Pyrene | 0.083 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]anthracene | 0.033 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Chrysene | 0.036 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[b]fluoranthene | 0.028 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo(j,k)fluoranthene | 0.012 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[a]pyrene | 0.026 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.013 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Dibenz[a,h]anthracene | ND | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| Benzo[g,h,i]perylene | 0.012 | 0.0074 | EPA 8270E/SIM | 10-7-20 | 10-8-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 56 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 72 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1007S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 10-7-20 | 10-7-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 57 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 70 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 09-328-05 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0676 | 0.0562 | 0.0833 | 0.0833 | ND | 81 | 67 | 51 - 115 | 18 | 26 |
| Acenaphthylene | 0.0589 | 0.0577 | 0.0833 | 0.0833 | ND | 71 | 69 | 53 - 121 | 2 | 24 |
| Acenaphthene | 0.0687 | 0.0599 | 0.0833 | 0.0833 | ND | 82 | 72 | 52 - 121 | 14 | 25 |
| Fluorene | 0.0600 | 0.0610 | 0.0833 | 0.0833 | ND | 72 | 73 | 58 - 127 | 2 | 23 |
| Phenanthrene | 0.0551 | 0.0546 | 0.0833 | 0.0833 | ND | 66 | 66 | 46 - 129 | 1 | 28 |
| Anthracene | 0.0596 | 0.0598 | 0.0833 | 0.0833 | ND | 72 | 72 | 57 - 124 | 0 | 21 |
| Fluoranthene | 0.0597 | 0.0620 | 0.0833 | 0.0833 | ND | 72 | 74 | 46 - 136 | 4 | 29 |
| Pyrene | 0.0625 | 0.0618 | 0.0833 | 0.0833 | ND | 75 | 74 | 41 - 136 | 1 | 32 |
| Benzo[a]anthracene | 0.0607 | 0.0589 | 0.0833 | 0.0833 | ND | 73 | 71 | 56 - 136 | 3 | 25 |
| Chrysene | 0.0568 | 0.0610 | 0.0833 | 0.0833 | ND | 68 | 73 | 49 - 130 | 7 | 22 |
| Benzo[b]fluoranthene | 0.0574 | 0.0594 | 0.0833 | 0.0833 | ND | 69 | 71 | 51 - 135 | 3 | 26 |
| Benzo(j,k)fluoranthene | 0.0577 | 0.0618 | 0.0833 | 0.0833 | ND | 69 | 74 | 56 - 124 | 7 | 23 |
| Benzo[a]pyrene | 0.0591 | 0.0645 | 0.0833 | 0.0833 | ND | 71 | 77 | 54 - 133 | 9 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0543 | 0.0519 | 0.0833 | 0.0833 | ND | 65 | 62 | 52 - 134 | 5 | 20 |
| Dibenz[a,h]anthracene | 0.0570 | 0.0570 | 0.0833 | 0.0833 | ND | 68 | 68 | 58 - 127 | 0 | 17 |
| Benzo[g,h,i]perylene | 0.0570 | 0.0580 | 0.0833 | 0.0833 | ND | 68 | 70 | 54 - 129 | 2 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 58 | 57 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 68 | 70 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 66 | 65 | 49 - 121 | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**TOTAL ARSENIC
EPA 6010D**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FB-26-5.0 | | | | | |
| Laboratory ID: | 10-012-13 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 10-12-20 | 10-12-20 | |

| | | | | | | |
|-------------------|-------------------|----|-----------|----------|----------|--|
| Client ID: | FMW-05-1.0 | | | | | |
| Laboratory ID: | 10-012-18 | | | | | |
| Arsenic | ND | 12 | EPA 6010D | 10-12-20 | 10-12-20 | |

| | | | | | | |
|-------------------|-------------------|----|-----------|----------|----------|--|
| Client ID: | FMW-06-5.0 | | | | | |
| Laboratory ID: | 10-012-22 | | | | | |
| Arsenic | ND | 16 | EPA 6010D | 10-12-20 | 10-12-20 | |

| | | | | | | |
|-------------------|-------------------|----|-----------|----------|----------|--|
| Client ID: | FMW-07-1.0 | | | | | |
| Laboratory ID: | 10-012-24 | | | | | |
| Arsenic | ND | 11 | EPA 6010D | 10-12-20 | 10-12-20 | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**TOTAL ARSENIC
 EPA 6010D
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1012SM2 | | | | | |
| Arsenic | ND | 5.0 | EPA 6010D | 10-12-20 | 10-12-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 10-106-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|-----|-----|----|-----------|-----------|--------|---|----|
| Laboratory ID: | 10-106-01 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 93.2 | 96.3 | 100 | 100 | ND | 93 | 96 | 75-125 | 3 | 20 |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-23-1.0 | | | | | |
| Laboratory ID: | 10-012-01 | | | | | |
| Naphthalene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| 2-Methylnaphthalene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| 1-Methylnaphthalene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Acenaphthylene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Acenaphthene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Fluorene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Phenanthrene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Anthracene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Fluoranthene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Pyrene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo[a]anthracene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Chrysene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo[b]fluoranthene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo[a]pyrene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Dibenz[a,h]anthracene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| Benzo[g,h,i]perylene | ND | 0.0077 | EPA 8270E/SIM | 10-13-20 | 10-16-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 51 | 46 - 113 | | | | |
| Pyrene-d10 | 61 | 45 - 114 | | | | |
| Terphenyl-d14 | 58 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S2 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----|-----------------|----|-----|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | | | |
| Laboratory ID: | 10-137-04 | | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | | |
| Naphthalene | 0.0496 | 0.0547 | 0.0833 | 0.0833 | ND | 60 | 66 | 51 - 115 | 10 | 26 | | |
| Acenaphthylene | 0.0507 | 0.0557 | 0.0833 | 0.0833 | ND | 61 | 67 | 53 - 121 | 9 | 24 | | |
| Acenaphthene | 0.0527 | 0.0562 | 0.0833 | 0.0833 | ND | 63 | 67 | 52 - 121 | 6 | 25 | | |
| Fluorene | 0.0511 | 0.0553 | 0.0833 | 0.0833 | ND | 61 | 66 | 58 - 127 | 8 | 23 | | |
| Phenanthrene | 0.0559 | 0.0591 | 0.0833 | 0.0833 | ND | 67 | 71 | 46 - 129 | 6 | 28 | | |
| Anthracene | 0.0545 | 0.0555 | 0.0833 | 0.0833 | ND | 65 | 67 | 57 - 124 | 2 | 21 | | |
| Fluoranthene | 0.0533 | 0.0557 | 0.0833 | 0.0833 | ND | 64 | 67 | 46 - 136 | 4 | 29 | | |
| Pyrene | 0.0547 | 0.0558 | 0.0833 | 0.0833 | ND | 66 | 67 | 41 - 136 | 2 | 32 | | |
| Benzo[a]anthracene | 0.0664 | 0.0672 | 0.0833 | 0.0833 | ND | 80 | 81 | 56 - 136 | 1 | 25 | | |
| Chrysene | 0.0589 | 0.0596 | 0.0833 | 0.0833 | ND | 71 | 72 | 49 - 130 | 1 | 22 | | |
| Benzo[b]fluoranthene | 0.0627 | 0.0576 | 0.0833 | 0.0833 | ND | 75 | 69 | 51 - 135 | 8 | 26 | | |
| Benzo(j,k)fluoranthene | 0.0547 | 0.0585 | 0.0833 | 0.0833 | ND | 66 | 70 | 56 - 124 | 7 | 23 | | |
| Benzo[a]pyrene | 0.0600 | 0.0601 | 0.0833 | 0.0833 | ND | 72 | 72 | 54 - 133 | 0 | 26 | | |
| Indeno(1,2,3-c,d)pyrene | 0.0584 | 0.0594 | 0.0833 | 0.0833 | ND | 70 | 71 | 52 - 134 | 2 | 20 | | |
| Dibenz[a,h]anthracene | 0.0555 | 0.0544 | 0.0833 | 0.0833 | ND | 67 | 65 | 58 - 127 | 2 | 17 | | |
| Benzo[g,h,i]perylene | 0.0553 | 0.0556 | 0.0833 | 0.0833 | ND | 66 | 67 | 54 - 129 | 1 | 21 | | |
| Surrogate: | | | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 52 | 57 | 46 - 113 | | | | |
| Pyrene-d10 | | | | | | 61 | 60 | 45 - 114 | | | | |
| Terphenyl-d14 | | | | | | 63 | 61 | 49 - 121 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012
 Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|------------------|---------------|-------------------|----------------------|
| FB-23-1.0 | 10-012-01 | 14 | 10-13-20 |
| FB-23-4.0 | 10-012-02 | 53 | 10-13-20 |
| FB-24-3.0 | 10-012-05 | 11 | 10-7-20 |
| FB-24-6.0 | 10-012-06 | 56 | 10-7-20 |
| FB-25-1.0 | 10-012-08 | 9 | 10-7-20 |
| FB-25-3.0 | 10-012-09 | 11 | 10-7-20 |
| FB-25-7.5 | 10-012-10 | 26 | 10-7-20 |
| FB-26-5.0 | 10-012-13 | 55 | 10-7-20 |
| FB-27-1.0 | 10-012-15 | 6 | 10-7-20 |
| FB-27-5.0 | 10-012-16 | 10 | 10-7-20 |
| FMW-05-1.0 | 10-012-18 | 18 | 10-7-20 |
| FMW-05-6.0 | 10-012-19 | 37 | 10-13-20 |
| FMW-06-1.0 | 10-012-21 | 10 | 10-13-20 |
| FMW-06-5.0 | 10-012-22 | 69 | 10-7-20 |
| FMW-07-1.0 | 10-012-24 | 11 | 10-7-20 |
| FMW-07-5.0 | 10-012-25 | 79 | 10-13-20 |





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 methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Chain of Custody

Page 1 of 2

Turnaround Request
(in working days)Laboratory Number:

10-012

| (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 checked="" type="checkbox"/> 4 day TAT AS (other) PMR-MS | | | | | |
| Date Sampled | Time Sampled | Matrix | Number of Containers | | |
| 10/1/20 | 0905 | Soil | 1 | | NWTPH-HCID |
| | 0910 | | | | NWTPH-Gx/BTEX |
| | 0915 | | | | NWTPH-Gx |
| | 0926 | | | | NWTPH-Dx (<input checked="" type="checkbox"/> Acid / SG Clean-up) WITH AND WITHOUT |
| | 0930 | | | | Volatiles 8260C |
| | 0935 | | | | Halogenated Volatiles 8260C |
| | 0937 | | | | EDB EPA 8011 (Waters Only) |
| | 0954 | | | | Semivolatiles 8270D/SIM (with low-level PAHs) |
| | 0956 | | | | PAHs 8270D/SIM (low-level) |
| | 1000 | V | | | PCBs 8082A |
| | | V | | | Organochlorine Pesticides 8081B |
| | | V | | | Organophosphorus Pesticides 8270D/SIM |
| | | V | | | Chlorinated Acid Herbicides 8151A |
| | | V | | | Total RCRA Metals |
| | | V | | | Total MTCA Metals |
| | | V | | | TCLP Metals |
| | | V | | | HEM (oil and grease) 1664A |
| | | V | | | TOTAL ARSENIC |
| | | V | | | 4 DAY TURN |
| | | V | | | % Moisture |

Hold all samples, PM will call w/ scheduled analyses

X-Added 10/5/2020, DB.

Some pays .4 day TAT remainder -Std. TAT

(X) Added 10/12/2020 DB(STA) O-EXTRACT AND H&I

Data Package: Standard ☐ Level III ☐ Level IV ☐

Reviewed/Date

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



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 2 of 3

| | | | | | |
|-------------------------------------|-----------------------|-----------------|--|-------------|-------------------------------|
| Company: <u>Excillon</u> | | | Turnaround Request (in working days) | | |
| Project Number: <u>650-031</u> | | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | |
| Project Name: <u>Thompson Field</u> | | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | |
| Project Manager: <u>C. Schmitt</u> | | | <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) | | |
| Sampled by: <u>SMR</u> | | | <input checked="" type="checkbox"/> 4 days - as marked (other) | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
| 11 | FB-25-12.5 | 10/1/20 | 1002 | Soil | 1 |
| 12 | FB-26-1.0 | | 1010 | | |
| 13 | FB-26-5.0 | | 1015 | | |
| 14 | FB-26-8.0 | | 1018 | | |
| 15 | FB-27-1.0 | | 1030 | | |
| 16 | FB-27-5.0 | | 1033 | | |
| 17 | FB-27-11.0 | | 1039 | | |
| 18 | FW-05-1.0 | | 1105 | | |
| 19 | FW-05-6.0 | | 1110 | | |
| 20 | FW-05-13.0 | | 1120 | | |
| Signature | | Company | Date | Time | Comments/Special Instructions |
| <u>[Signature]</u> | | <u>Excillon</u> | <u>10/1/20</u> | <u>1534</u> | |
| <u>Michelle Spruiell</u> | | <u>OSC</u> | <u>10/1/20</u> | <u>1534</u> | |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | |
| Relinquished | | | | | |
| Received | | | | | |
| Reviewed/Date | | | | | |
| Reviewed/Date | | | | | |

| | |
|--|--|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-Dx (X) 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 | |
| TOTAL ARSENIC | |
| 4 DAY TAT | |
| % Moisture | |

Data Package: Standard ☐ Level III ☐ Level IV ☐

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



Chain of Custody

Page 3 of 3

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

Company: Fawcett
Project Number: 650-031
Project Name: Thompson Field
Project Manager: C. Schmitt
Sampled by: SMR

Turnaround Request
(in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

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

☐ _____ (other)

Number of Containers

Laboratory Number: 10-012

| | |
|--|--|
| NWTPH-HCID | |
| NWTPH-Gx/BTEX | |
| NWTPH-Gx | |
| NWTPH-Dx (<input checked="" 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 | |
| <u>TOTAL ARSENIC</u> | |
| % Moisture | |

Lab ID Sample Identification

21 FALU-06-1.0

10/1/20 1310 Soil 1

22 FALU-06-5.0

1315 1

23 FALU-06-14.0

1320 1

24 FALU-07-1.0

1407 1

25 FALU-07-5.0

1417 1

26 FALU-07-14.0

1424 1

Signature

Company

Date

Time

Comments/Special Instructions

Relinquished

[Signature]

Fawcett

10/1/20

1534

Received

[Signature]

OSE

10/1/20

1534

Relinquished

Received

Relinquished

Received

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

October 22, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2010-012B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 1, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read "DB", with a long horizontal stroke extending to the right.

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: October 22, 2020
Samples Submitted: October 1, 2020
Laboratory Reference: 2010-012B
Project: 650-031

Case Narrative

Samples were collected on October 1, 2020 and received by the laboratory on October 1, 2020. 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: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-05-1.0 | | | | |
| Laboratory ID: | | 10-012-18 | | | | |
| Naphthalene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 2-Methylnaphthalene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 1-Methylnaphthalene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthylene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluorene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Phenanthrene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Anthracene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluoranthene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Pyrene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]anthracene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Chrysene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[b]fluoranthene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]pyrene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Dibenz[a,h]anthracene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[g,h,i]perylene | ND | 0.0081 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 84 | 46 - 113 | | | | |
| Pyrene-d10 | 90 | 45 - 114 | | | | |
| Terphenyl-d14 | 106 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-05-6.0 | | | | |
| Laboratory ID: | | 10-012-19 | | | | |
| Naphthalene | 0.029 | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 2-Methylnaphthalene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 1-Methylnaphthalene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthylene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluorene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Phenanthrene | 0.018 | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Anthracene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluoranthene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Pyrene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]anthracene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Chrysene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[b]fluoranthene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo(j,k)fluoranthene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]pyrene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Dibenz[a,h]anthracene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[g,h,i]perylene | ND | 0.011 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 74 | 46 - 113 | | | | |
| Pyrene-d10 | 80 | 45 - 114 | | | | |
| Terphenyl-d14 | 87 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---|--------|-------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-06-1.0 | | | | |
| Laboratory ID: | | 10-012-21 | | | | |
| Naphthalene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 2-Methylnaphthalene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| 1-Methylnaphthalene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthylene | 0.017 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Acenaphthene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluorene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Phenanthrene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Anthracene | 0.026 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Fluoranthene | 0.030 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Pyrene | 0.029 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]anthracene | 0.034 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Chrysene | 0.075 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[b]fluoranthene | 0.064 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[j,k]fluoranthene | 0.017 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[a]pyrene | 0.043 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Indeno(1,2,3-c,d)pyrene | 0.044 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Dibenz[a,h]anthracene | ND | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| Benzo[g,h,i]perylene | 0.039 | 0.015 | EPA 8270E/SIM | 10-13-20 | 10-22-20 | |
| <i>Surrogate: Percent Recovery Control Limits</i> | | | | | | |
| 2-Fluorobiphenyl | 79 | 46 - 113 | | | | |
| Pyrene-d10 | 88 | 45 - 114 | | | | |
| Terphenyl-d14 | 91 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-06-5.0 | | | | |
| Laboratory ID: | | 10-012-22 | | | | |
| Naphthalene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 2-Methylnaphthalene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 1-Methylnaphthalene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthylene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluorene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Phenanthrene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Anthracene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluoranthene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Pyrene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]anthracene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Chrysene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[b]fluoranthene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo(j,k)fluoranthene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]pyrene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Dibenz[a,h]anthracene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[g,h,i]perylene | ND | 0.022 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 81 | 46 - 113 | | | | |
| Pyrene-d10 | 85 | 45 - 114 | | | | |
| Terphenyl-d14 | 96 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-07-1.0 | | | | |
| Laboratory ID: | | 10-012-24 | | | | |
| Naphthalene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 2-Methylnaphthalene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 1-Methylnaphthalene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthylene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluorene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Phenanthrene | 0.019 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Anthracene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluoranthene | 0.021 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Pyrene | 0.021 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]anthracene | 0.012 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Chrysene | 0.012 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[b]fluoranthene | 0.015 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]pyrene | 0.011 | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Dibenz[a,h]anthracene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[g,h,i]perylene | ND | 0.0075 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 81 | 46 - 113 | | | | |
| Pyrene-d10 | 75 | 45 - 114 | | | | |
| Terphenyl-d14 | 85 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-07-5.0 | | | | |
| Laboratory ID: | | 10-012-25 | | | | |
| Naphthalene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 2-Methylnaphthalene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| 1-Methylnaphthalene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthylene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Acenaphthene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluorene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Phenanthrene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Anthracene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Fluoranthene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Pyrene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]anthracene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Chrysene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[b]fluoranthene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo(j,k)fluoranthene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[a]pyrene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Dibenz[a,h]anthracene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| Benzo[g,h,i]perylene | ND | 0.031 | EPA 8270E/SIM | 10-13-20 | 10-21-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 83 | 46 - 113 | | | | |
| Pyrene-d10 | 84 | 45 - 114 | | | | |
| Terphenyl-d14 | 92 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013S2 | | | | | |
| Naphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 2-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| 1-Methylnaphthalene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Acenaphthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluorene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Phenanthrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Chrysene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[b]fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo(j,k)fluoranthene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[a]pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Dibenz[a,h]anthracene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| Benzo[g,h,i]perylene | ND | 0.0033 | EPA 8270E/SIM | 10-13-20 | 10-15-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 60 | 46 - 113 | | | | |
| Pyrene-d10 | 72 | 45 - 114 | | | | |
| Terphenyl-d14 | 67 | 49 - 121 | | | | |



Date of Report: October 22, 2020
 Samples Submitted: October 1, 2020
 Laboratory Reference: 2010-012B
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | | Recovery Limits | | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----|-----------------|----|-----|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | | | |
| Laboratory ID: | 10-137-04 | | | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | | | |
| Naphthalene | 0.0496 | 0.0547 | 0.0833 | 0.0833 | ND | 60 | 66 | 51 - 115 | 10 | 26 | | |
| Acenaphthylene | 0.0507 | 0.0557 | 0.0833 | 0.0833 | ND | 61 | 67 | 53 - 121 | 9 | 24 | | |
| Acenaphthene | 0.0527 | 0.0562 | 0.0833 | 0.0833 | ND | 63 | 67 | 52 - 121 | 6 | 25 | | |
| Fluorene | 0.0511 | 0.0553 | 0.0833 | 0.0833 | ND | 61 | 66 | 58 - 127 | 8 | 23 | | |
| Phenanthrene | 0.0559 | 0.0591 | 0.0833 | 0.0833 | ND | 67 | 71 | 46 - 129 | 6 | 28 | | |
| Anthracene | 0.0545 | 0.0555 | 0.0833 | 0.0833 | ND | 65 | 67 | 57 - 124 | 2 | 21 | | |
| Fluoranthene | 0.0533 | 0.0557 | 0.0833 | 0.0833 | ND | 64 | 67 | 46 - 136 | 4 | 29 | | |
| Pyrene | 0.0547 | 0.0558 | 0.0833 | 0.0833 | ND | 66 | 67 | 41 - 136 | 2 | 32 | | |
| Benzo[a]anthracene | 0.0664 | 0.0672 | 0.0833 | 0.0833 | ND | 80 | 81 | 56 - 136 | 1 | 25 | | |
| Chrysene | 0.0589 | 0.0596 | 0.0833 | 0.0833 | ND | 71 | 72 | 49 - 130 | 1 | 22 | | |
| Benzo[b]fluoranthene | 0.0627 | 0.0576 | 0.0833 | 0.0833 | ND | 75 | 69 | 51 - 135 | 8 | 26 | | |
| Benzo(j,k)fluoranthene | 0.0547 | 0.0585 | 0.0833 | 0.0833 | ND | 66 | 70 | 56 - 124 | 7 | 23 | | |
| Benzo[a]pyrene | 0.0600 | 0.0601 | 0.0833 | 0.0833 | ND | 72 | 72 | 54 - 133 | 0 | 26 | | |
| Indeno(1,2,3-c,d)pyrene | 0.0584 | 0.0594 | 0.0833 | 0.0833 | ND | 70 | 71 | 52 - 134 | 2 | 20 | | |
| Dibenz[a,h]anthracene | 0.0555 | 0.0544 | 0.0833 | 0.0833 | ND | 67 | 65 | 58 - 127 | 2 | 17 | | |
| Benzo[g,h,i]perylene | 0.0553 | 0.0556 | 0.0833 | 0.0833 | ND | 66 | 67 | 54 - 129 | 1 | 21 | | |
| Surrogate: | | | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 52 | 57 | 46 - 113 | | | | |
| Pyrene-d10 | | | | | | 61 | 60 | 45 - 114 | | | | |
| Terphenyl-d14 | | | | | | 63 | 61 | 49 - 121 | | | | |



Date of Report: October 22, 2020
Samples Submitted: October 1, 2020
Laboratory Reference: 2010-012B
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|-------------------|---------------|-------------------|----------------------|
| FMW-05-1.0 | 10-012-18 | 18 | 10-7-20 |
| FMW-05-6.0 | 10-012-19 | 37 | 10-13-20 |
| FMW-06-1.0 | 10-012-21 | 10 | 10-13-20 |
| FMW-06-5.0 | 10-012-22 | 69 | 10-7-20 |
| FMW-07-1.0 | 10-012-24 | 11 | 10-7-20 |
| FMW-07-5.0 | 10-012-25 | 79 | 10-13-20 |





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 methods 8260 & 8270, 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
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Chain of Custody

Page 1 of 3

| | | | | | | |
|-------------------------------------|-----------------------|--------------|--|--------|----------------------|--|
| Company: <u>Exallan</u> | | | Turnaround Request (in working days) | | | |
| Project Number: <u>650-031</u> | | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | |
| Project Name: <u>Thompson Field</u> | | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | |
| Project Manager: <u>C. Schmitt</u> | | | <input checked="" type="checkbox"/> Standard (7 Days) (TPH analysis 5 Days) | | | |
| Sampled by: <u>SMR</u> | | | <input checked="" type="checkbox"/> 4 day TAT AS (other) <u>PHAS</u> | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | |
| 1 | FB-23-1.0 | 10/1/20 | 0905 | Soil | 1 | NWTPH-HCID |
| 2 | FB-23-4.0 | | 0910 | | | NWTPH-Gx/BTEX |
| 3 | FB-23-7.5 | | 0915 | | | NWTPH-Gx |
| 4 | FB-24-1.0 | | 0926 | | | NWTPH-Dx (<input checked="" type="checkbox"/> Acid / SG Clean-up) <u>WITH AND WITHOUT</u> |
| 5 | FB-24-3.0 | | 0930 | | | Volatiles 8260C |
| 6 | FB-24-6.0 | | 0935 | | | Halogenated Volatiles 8260C |
| 7 | FB-24-14.0 | | 0937 | | | EDB EPA 8011 (Waters Only) |
| 8 | FB-25-1.0 | | 0954 | | | Semivolatiles 8270D/SIM (with low-level PAHs) |
| 9 | FB-25-3.0 | | 0956 | | | PAHs 8270D/SIM (low-level) |
| 10 | FB-25-7.5 | | 1000 | | | PCBs 8082A |
| Relinquished | | | | | | Organochlorine Pesticides 8081B |
| Received | | | | | | Organophosphorus Pesticides 8270D/SIM |
| Relinquished | | | | | | Chlorinated Acid Herbicides 8151A |
| Received | | | | | | Total RCRA Metals |
| Relinquished | | | | | | Total MTCA Metals |
| Received | | | | | | TCLP Metals |
| Relinquished | | | | | | HEM (oil and grease) 1664A |
| Received | | | | | | <u>TOTAL ARSENIC</u> |
| Relinquished | | | | | | <u>4 DAY TURN</u> |
| Received | | | | | | % Moisture |
| Reviewed/Date | | | | | | |

| | | | | |
|--------------------|----------------|----------------|-------------|--|
| Signature | Company | Date | Time | Comments/Special Instructions |
| <u>[Signature]</u> | <u>Exallan</u> | <u>10/1/20</u> | <u>1534</u> | <u>Hold all samples, put with call w/ scheduled analyses</u> |
| <u>[Signature]</u> | <u>OSE</u> | <u>10/1/20</u> | <u>1534</u> | <u>X-Added 10/5/2020, DG.</u> |
| | | | | <u>Some PAHs - 4 day TAT</u> |
| | | | | <u>Remainder - Std. TAT</u> |
| | | | | <u>Added 10/12/2020 - DG (STA) O-EXTRACT AND HOLD</u> |
| | | | | <u>Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> Added 10/12/2020, DG</u> |
| | | | | <u>Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> Added 10/29/2020 - DG (STA)</u> |



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Chain of Custody

Page 3 of 3

| Turnaround Request (in working days) | | | | Laboratory Number: 10-012 | | | | | | | | | | | | | | | | | | | | |
|--|-----------------------|---|--------------|----------------------------------|----------------------|------------|---------------|----------|---|-----------------|-----------------------------|----------------------------|--|----------------------------|------------|---------------------------------|---------------------------------------|-----------------------------------|-------------------|-------------------|-------------|----------------------------|---------------|------------|
| (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: | Fawcett | Project Number: | 650-031 | Project Name: | Thompson Field | | | | | | | | | | | | | | | | | | | |
| Project Manager: | C. Schmitt | | | | | | | | | | | | | | | | | | | | | | | |
| Sampled by: | SMR | | | | | | | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | | | | | | | | |
| 21 | FALU-06-1.0 | 10/1/20 | 1310 | Soil | 1 | NWTPH-HCID | NWTPH-Gx/BTEX | NWTPH-Gx | NWTPH-Dx (X Acid / SG Clean-up) WITH AND WITHOUT | 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 | TOTAL ARSENIC | % Moisture |
| 22 | FALU-06-5.0 | | 1315 | | | | | X | | | | | | | | | | | | | | | | |
| 23 | FALU-06-14.0 | | 1320 | | | | | | | | | | | | | | | | | | | | | |
| 24 | FALU-07-1.0 | | 1407 | | | | | X | | | | | | | | | | | | | | | | |
| 25 | FALU-07-5.0 | | 1417 | | | | | | | | | | | | | | | | | | | | | |
| 26 | FALU-07-14.0 | | 1424 | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | |
| Signature | Company | Date | Time | Comments/Special Instructions | | | | | | | | | | | | | | | | | | | | |
| | Fawcett | 10/1/20 | 1534 | | | | | | | | | | | | | | | | | | | | | |
| Received | Received | 10/1/20 | 1534 | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Received | Received | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | Relinquished | | | | | | | | | | | | | | | | | | | | | | | |
| Received | Received | | | | | | | | | | | | | | | | | | | | | | | |
| Relinquished | 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"/> | | | | | | | | | | | | | | | | | | | | | | |



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

October 19, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2010-111

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 9, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: October 19, 2020
Samples Submitted: October 9, 2020
Laboratory Reference: 2010-111
Project: 650-031

Case Narrative

Samples were collected on October 9, 2020 and received by the laboratory on October 9, 2020. 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: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|--------|-------------------------|-----------------------|---------------|---------------|-------|
| Client ID: | | FMW-05-100920 | | | | |
| Laboratory ID: | | 10-111-01 | | | | |
| Naphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 2-Methylnaphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 1-Methylnaphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthylene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluorene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Phenanthrene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Anthracene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluoranthene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Pyrene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]anthracene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Chrysene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[b]fluoranthene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]pyrene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Dibenz[a,h]anthracene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[g,h,i]perylene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| <i>Surrogate:</i> | | <i>Percent Recovery</i> | <i>Control Limits</i> | | | |
| 2-Fluorobiphenyl | | 54 | 20 - 106 | | | |
| Pyrene-d10 | | 67 | 26 - 104 | | | |
| Terphenyl-d14 | | 65 | 44 - 127 | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-07-100920 | | | | |
| Laboratory ID: | | 10-111-02 | | | | |
| Naphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 2-Methylnaphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 1-Methylnaphthalene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthylene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluorene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Phenanthrene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Anthracene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluoranthene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Pyrene | ND | 0.096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]anthracene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Chrysene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[b]fluoranthene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[j,k]fluoranthene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]pyrene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Dibenz[a,h]anthracene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[g,h,i]perylene | ND | 0.0096 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 49 | 20 - 106 | | | | |
| Pyrene-d10 | 60 | 26 - 104 | | | | |
| Terphenyl-d14 | 66 | 44 - 127 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-06-100920 | | | | |
| Laboratory ID: | | 10-111-03 | | | | |
| Naphthalene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 2-Methylnaphthalene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 1-Methylnaphthalene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthylene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluorene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Phenanthrene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Anthracene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluoranthene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Pyrene | ND | 0.12 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]anthracene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Chrysene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[b]fluoranthene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo(j,k)fluoranthene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]pyrene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Dibenz[a,h]anthracene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[g,h,i]perylene | ND | 0.012 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| <i>Surrogate:</i> | | | | | | |
| | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 55 | 20 - 106 | | | | |
| Pyrene-d10 | 58 | 26 - 104 | | | | |
| Terphenyl-d14 | 64 | 44 - 127 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1013W1 | | | | | |
| Naphthalene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 2-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| 1-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthylene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Acenaphthene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluorene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Phenanthrene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Anthracene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Fluoranthene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Pyrene | ND | 0.10 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]anthracene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Chrysene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[b]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[j,k]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[a]pyrene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Dibenz[a,h]anthracene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| Benzo[g,h,i]perylene | ND | 0.010 | EPA 8270E/SIM | 10-13-20 | 10-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 42 | 20 - 106 | | | | |
| Pyrene-d10 | 64 | 26 - 104 | | | | |
| Terphenyl-d14 | 61 | 44 - 127 | | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|-------|-------------|-------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB1013W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.256 | 0.241 | 0.500 | 0.500 | 51 | 48 | 30 - 98 | 6 | 40 | |
| Acenaphthylene | 0.326 | 0.315 | 0.500 | 0.500 | 65 | 63 | 39 - 106 | 3 | 32 | |
| Acenaphthene | 0.311 | 0.294 | 0.500 | 0.500 | 62 | 59 | 36 - 114 | 6 | 33 | |
| Fluorene | 0.304 | 0.300 | 0.500 | 0.500 | 61 | 60 | 45 - 112 | 1 | 30 | |
| Phenanthrene | 0.340 | 0.343 | 0.500 | 0.500 | 68 | 69 | 51 - 109 | 1 | 24 | |
| Anthracene | 0.301 | 0.309 | 0.500 | 0.500 | 60 | 62 | 49 - 109 | 3 | 25 | |
| Fluoranthene | 0.342 | 0.342 | 0.500 | 0.500 | 68 | 68 | 53 - 115 | 0 | 22 | |
| Pyrene | 0.347 | 0.358 | 0.500 | 0.500 | 69 | 72 | 49 - 129 | 3 | 32 | |
| Benzo[a]anthracene | 0.452 | 0.458 | 0.500 | 0.500 | 90 | 92 | 61 - 123 | 1 | 24 | |
| Chrysene | 0.414 | 0.425 | 0.500 | 0.500 | 83 | 85 | 59 - 114 | 3 | 24 | |
| Benzo[b]fluoranthene | 0.405 | 0.413 | 0.500 | 0.500 | 81 | 83 | 60 - 125 | 2 | 26 | |
| Benzo(j,k)fluoranthene | 0.414 | 0.416 | 0.500 | 0.500 | 83 | 83 | 58 - 121 | 0 | 22 | |
| Benzo[a]pyrene | 0.374 | 0.379 | 0.500 | 0.500 | 75 | 76 | 58 - 118 | 1 | 24 | |
| Indeno(1,2,3-c,d)pyrene | 0.393 | 0.400 | 0.500 | 0.500 | 79 | 80 | 59 - 124 | 2 | 26 | |
| Dibenz[a,h]anthracene | 0.395 | 0.406 | 0.500 | 0.500 | 79 | 81 | 59 - 123 | 3 | 25 | |
| Benzo[g,h,i]perylene | 0.398 | 0.406 | 0.500 | 0.500 | 80 | 81 | 58 - 120 | 2 | 25 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 50 | 49 | 20 - 106 | | | |
| Pyrene-d10 | | | | | 72 | 73 | 26 - 104 | | | |
| Terphenyl-d14 | | | | | 73 | 75 | 44 - 127 | | | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

TOTAL ARSENIC
EPA 200.8

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|----------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-05-100920 | | | | | |
| Laboratory ID: | 10-111-01 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 10-16-20 | 10-16-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|----------|----------|--|
| Client ID: | FMW-07-100920 | | | | | |
| Laboratory ID: | 10-111-02 | | | | | |
| Arsenic | 7.2 | 3.3 | EPA 200.8 | 10-16-20 | 10-16-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|----------|----------|--|
| Client ID: | FMW-06-100920 | | | | | |
| Laboratory ID: | 10-111-03 | | | | | |
| Arsenic | 14 | 3.3 | EPA 200.8 | 10-16-20 | 10-16-20 | |



Date of Report: October 19, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111
 Project: 650-031

**TOTAL ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1016WM1 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 10-16-20 | 10-16-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 10-075-07 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|------------|------------|-----|-----|----|------------|------------|--------|---|----|
| Laboratory ID: | 10-075-07 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 114 | 121 | 111 | 111 | ND | 102 | 109 | 75-125 | 6 | 20 |





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 methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Chain of Custody

Analytical Laboratory Testing Services
14648 NE 95th Street • Redmond, WA 98052
Phone: (425) 883-3861 • www.on-site-env.com

| | | | | | | | | | | | |
|---|-----------------------|--|--------------|--------|----------------------|--|--|--|--|--|--|
| Company: <u>Farellon</u> | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | |
| Project Number: <u>650-031</u> | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | |
| Project Name: | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | |
| Project Manager: <u>C. Schmitt</u> | | <input type="checkbox"/> _____ (other) | | | | | | | | | |
| Sampled by: <u>SNB</u> | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | |
| 1 | FALW-05-100920 | 10/9/20 | 145 | 6W | 4 | | | | | | |
| 2 | FALW-07-100920 | ↓ | 1330 | ↓ | 4 | | | | | | |
| 3 | FALW-06-100920 | ↓ | 1345 | ↓ | 4 | | | | | | |
| <div>run for Total Arsenic, if detections, run for dissolved Arsenic.</div> | | | | | | | | | | | |
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| | | | | | | | | | | | |
| 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 | | | | | | | | | | | |
| <u>Arsenic</u> | | | | | | | | | | | |
| % Moisture | | | | | | | | | | | |



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

October 30, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2010-111B

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 9, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: October 30, 2020
Samples Submitted: October 9, 2020
Laboratory Reference: 2010-111B
Project: 650-031

Case Narrative

Samples were collected on October 9, 2020 and received by the laboratory on October 9, 2020. 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: October 30, 2020
Samples Submitted: October 9, 2020
Laboratory Reference: 2010-111B
Project: 650-031

DISSOLVED ARSENIC
EPA 200.8

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|----------------|---------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-07-100920 | | | | | |
| Laboratory ID: | 10-111-02 | | | | | |
| Arsenic | 9.0 | 3.0 | EPA 200.8 | | 10-27-20 | |

| | | | | | | |
|----------------|---------------|-----|-----------|--|----------|--|
| Client ID: | FMW-06-100920 | | | | | |
| Laboratory ID: | 10-111-03 | | | | | |
| Arsenic | 9.5 | 3.0 | EPA 200.8 | | 10-27-20 | |



Date of Report: October 30, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111B
 Project: 650-031

**DISSOLVED ARSENIC
 EPA 200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1022F1 | | | | | |
| Arsenic | ND | 3.0 | EPA 200.8 | 10-22-20 | 10-27-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-------------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 10-250-02 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | 52.0 | 52.8 | NA | NA | NA | NA | 2 | 20 |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|------------|------------|------|------|------|------------|------------|--------|---|----|
| Laboratory ID: | 10-250-02 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 141 | 138 | 80.0 | 80.0 | 52.0 | 111 | 107 | 75-125 | 2 | 20 |





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 methods 8260 & 8270, 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.**

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Chain of Custody

Page 1 of 1

Turnaround Request (in working days)

(Check One)

☐ Same Day ☐ 1 Day

☐ 2 Days ☐ 3 Days

☒ Standard (7 Days)

☐ _____ (other)

Laboratory Number:

10-111

Number of Containers

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

Arsenic
Dissolved As

% Moisture

| | |
|------------------|------------|
| Company: | Farallon |
| Project Number: | 650-031 |
| Project Name: | |
| Project Manager: | C. Schmitt |
| Sampled by: | SNB |

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix |
|--------|-----------------------|--------------|--------------|--------|
| 1 | FALL-05-100920 | 10/9/20 | 145 | 6W |
| 2 | FALL-07-100920 | ↓ | 1330 | ↓ |
| 3 | FALL-06-100920 | ↓ | 1345 | ↓ |

| Signature | Company | Date | Time |
|-----------------|----------|---------|------|
| | Farallon | 10/9/20 | 1440 |
| Matthew J. Bell | OSI | 10/9/20 | 1440 |

| | | | | |
|---------------|--|--|--|---|
| Relinquished | | | | Comments/Special Instructions run for Total Arsenic, if detections, run for dissolved Arsenic. ⓧ Added 10/23/20 STA |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| Relinquished | | | | |
| Received | | | | |
| 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

December 15, 2020

Cliff Schmitt
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2010-111C

Dear Cliff:

Enclosed are the analytical results and associated quality control data for samples submitted on October 9, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: December 15, 2020
Samples Submitted: October 9, 2020
Laboratory Reference: 2010-111C
Project: 650-031

Case Narrative

Samples were collected on October 9, 2020 and received by the laboratory on October 9, 2020. 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.

Total Metals EPA 7470A Analysis

Sample was analyzed for Hg out of holding time.

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



Date of Report: December 15, 2020
Samples Submitted: October 9, 2020
Laboratory Reference: 2010-111C
Project: 650-031

TOTAL MERCURY
EPA 7470A

Matrix: Water
Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|----------------|---------------|------|-----------|---------------|---------------|-------|
| Client ID: | FMW-06-100920 | | | | | |
| Laboratory ID: | 10-111-03 | | | | | |
| Mercury | ND | 0.50 | EPA 7470A | 12-14-20 | 12-14-20 | |



Date of Report: December 15, 2020
 Samples Submitted: October 9, 2020
 Laboratory Reference: 2010-111C
 Project: 650-031

**TOTAL MERCURY
 EPA 7470A
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1214W1 | | | | | |
| Mercury | ND | 0.50 | EPA 7470A | 12-14-20 | 12-14-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-094-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Mercury | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-------------|-------------|------|------|----|-----------|-----------|--------|---|----|
| Laboratory ID: | 12-094-01 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Mercury | 11.0 | 11.2 | 12.5 | 12.5 | ND | 88 | 90 | 75-125 | 2 | 20 |





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
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- 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 _____.
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- 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 methods 8260 & 8270, 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

December 16, 2020

Stuart Brown
Farallon Consulting, LLC
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2012-128

Dear Stuart:

Enclosed are the analytical results and associated quality control data for samples submitted on December 11, 2020.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal stroke extending to the right.

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: December 16, 2020
Samples Submitted: December 11, 2020
Laboratory Reference: 2012-128
Project: 650-031

Case Narrative

Samples were collected on December 11, 2020 and received by the laboratory on December 11, 2020. 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: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FMW-04-121120 | | | | | |
| Laboratory ID: | 12-128-01 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 89 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | FMW-04-121120 | | | | | |
| Laboratory ID: | 12-128-01 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 95 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|--|
| Client ID: | FMW-03-121120 | | | | | |
| Laboratory ID: | 12-128-02 | | | | | |
| Diesel Range Organics | ND | 0.22 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.22 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 87 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | FMW-03-121120 | | | | | |
| Laboratory ID: | 12-128-02 | | | | | |
| Diesel Range Organics | ND | 0.22 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.22 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 101 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|--|
| Client ID: | FMW-02-121120 | | | | | |
| Laboratory ID: | 12-128-03 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 90 | 50-150 | | | | |

| | | | | | | |
|-------------------------|-------------------------|-----------------------|----------|----------|----------|----|
| Client ID: | FMW-02-121120 | | | | | |
| Laboratory ID: | 12-128-03 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 102 | 50-150 | | | | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|----------------------|----------------|----------|---------------|---------------|-------|
| Client ID: | FMW-05-121120 | | | | | |
| Laboratory ID: | 12-128-04 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 84 | 50-150 | | | | |

| | | | | | | |
|-------------------------|----------------------|----------------|----------|----------|----------|----|
| Client ID: | FMW-05-121120 | | | | | |
| Laboratory ID: | 12-128-04 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 92 | 50-150 | | | | |

| | | | | | | |
|-------------------------|----------------------|----------------|----------|----------|----------|--|
| Client ID: | FMW-01-121120 | | | | | |
| Laboratory ID: | 12-128-05 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 97 | 50-150 | | | | |

| | | | | | | |
|-------------------------|----------------------|----------------|----------|----------|----------|----|
| Client ID: | FMW-01-121120 | | | | | |
| Laboratory ID: | 12-128-05 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 91 | 50-150 | | | | |

| | | | | | | |
|-------------------------|----------------------|----------------|----------|----------|----------|--|
| Client ID: | FMW-06-121120 | | | | | |
| Laboratory ID: | 12-128-06 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | 0.34 | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 92 | 50-150 | | | | |

| | | | | | | |
|-------------------------|----------------------|----------------|----------|----------|----------|----|
| Client ID: | FMW-06-121120 | | | | | |
| Laboratory ID: | 12-128-06 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| <i>o</i> -Terphenyl | 98 | 50-150 | | | | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

DIESEL AND HEAVY OIL RANGE ORGANICS
NWTPH-Dx

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|----------|---------------|---------------|-------|
| Client ID: | FMW-07-121120 | | | | | |
| Laboratory ID: | 12-128-07 | | | | | |
| Diesel Range Organics | 0.24 | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | 0.29 | 0.21 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 83 | 50-150 | | | | |
| Client ID: | FMW-07-121120 | | | | | |
| Laboratory ID: | 12-128-07 | | | | | |
| Diesel Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.21 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| <i>o-Terphenyl</i> | 87 | 50-150 | | | | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**DIESEL AND HEAVY OIL RANGE ORGANICS
 NWTPH-Dx
 QUALITY CONTROL**

Matrix: Water
 Units: mg/L (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|------------------|----------------|----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1214W1 | | | | | |
| Diesel Range Organics | ND | 0.20 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Lube Oil Range Organics | ND | 0.20 | NWTPH-Dx | 12-14-20 | 12-14-20 | |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 93 | 50-150 | | | | |
| | | | | | | |
| Laboratory ID: | MB1214W1 | | | | | |
| Diesel Range Organics | ND | 0.20 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Lube Oil Range Organics | ND | 0.20 | NWTPH-Dx | 12-14-20 | 12-15-20 | X1 |
| Surrogate: | Percent Recovery | Control Limits | | | | |
| o-Terphenyl | 109 | 50-150 | | | | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------------------|-----------|-------------|---------------|------------------|-----------------|--------|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-128-01 | | | | | | | |
| | 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 | | | | 89 | 88 | 50-150 | | |
| Laboratory ID: 12-128-01 | | | | | | | | |
| | ORIG | DUP | | | | | | |
| Diesel Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Lube Oil Range | ND | ND | NA | NA | NA | NA | NA | X1 |
| Surrogate: | | | | | | | | |
| <i>o</i> -Terphenyl | | | | 95 | 99 | 50-150 | | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**TOTAL METALS
 EPA 6010D/200.8**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------------------|--------|-----|-----------|---------------|---------------|-------|
| Client ID: FMW-03-121120 | | | | | | |
| Laboratory ID: 12-128-02 | | | | | | |
| Aluminum | ND | 110 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Arsenic | ND | 3.3 | EPA 200.8 | 12-14-20 | 12-14-20 | |
| Iron | 1800 | 56 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Manganese | 500 | 11 | EPA 6010D | 12-14-20 | 12-15-20 | |

| | | | | | | |
|---------------------------------|------|-----|-----------|----------|----------|--|
| Client ID: FMW-02-121120 | | | | | | |
| Laboratory ID: 12-128-03 | | | | | | |
| Aluminum | 2200 | 110 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Iron | 8900 | 56 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Manganese | 570 | 11 | EPA 6010D | 12-14-20 | 12-15-20 | |

| | | | | | | |
|---------------------------------|-----|-----|-----------|----------|----------|--|
| Client ID: FMW-06-121120 | | | | | | |
| Laboratory ID: 12-128-06 | | | | | | |
| Arsenic | 3.6 | 3.3 | EPA 200.8 | 12-14-20 | 12-14-20 | |

| | | | | | | |
|---------------------------------|-----|-----|-----------|----------|----------|--|
| Client ID: FMW-07-121120 | | | | | | |
| Laboratory ID: 12-128-07 | | | | | | |
| Arsenic | 5.3 | 3.3 | EPA 200.8 | 12-14-20 | 12-14-20 | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**TOTAL METALS
 EPA 6010D/200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1214WM1 | | | | | |
| Arsenic | ND | 3.3 | EPA 200.8 | 12-14-20 | 12-14-20 | |
| | | | | | | |
| Laboratory ID: | MB1214WM1 | | | | | |
| Aluminum | ND | 110 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Iron | ND | 56 | EPA 6010D | 12-14-20 | 12-15-20 | |
| Manganese | ND | 11 | EPA 6010D | 12-14-20 | 12-15-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-089-02 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | 3.60 | 4.02 | NA | NA | NA | NA | 11 | 20 |
| | | | | | | | | |
| Laboratory ID: | 12-089-02 | | | | | | | |
| Aluminum | 2340 | 2060 | NA | NA | NA | NA | 13 | 20 |
| Iron | 2900 | 2770 | NA | NA | NA | NA | 5 | 20 |
| Manganese | 489 | 488 | NA | NA | NA | NA | 0 | 20 |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-----------|-------|-------|-------|------|-----|-----|--------|---|----|
| Laboratory ID: | 12-089-02 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 114 | 115 | 111 | 111 | 3.60 | 99 | 101 | 75-125 | 1 | 20 |
| | | | | | | | | | | |
| Laboratory ID: | 12-089-02 | | | | | | | | | |
| Aluminum | 24600 | 25300 | 22200 | 22200 | 2340 | 100 | 104 | 75-125 | 3 | 20 |
| Iron | 24800 | 25600 | 22200 | 22200 | 2900 | 99 | 102 | 75-125 | 3 | 20 |
| Manganese | 581 | 580 | 111 | 111 | 489 | 83 | 82 | 75-125 | 0 | 20 |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

DISSOLVED METALS
EPA 6010D/200.8

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------|----------------------|-----|-----------|---------------|---------------|-------|
| Client ID: | FMW-03-121120 | | | | | |
| Laboratory ID: | 12-128-02 | | | | | |
| Aluminum | ND | 110 | EPA 6010D | | 12-14-20 | |
| Arsenic | ND | 3.0 | EPA 200.8 | | 12-14-20 | |
| Iron | 1500 | 56 | EPA 6010D | | 12-14-20 | |
| Manganese | 480 | 11 | EPA 6010D | | 12-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|--|----------|--|
| Client ID: | FMW-02-121120 | | | | | |
| Laboratory ID: | 12-128-03 | | | | | |
| Aluminum | ND | 110 | EPA 6010D | | 12-14-20 | |
| Iron | 7100 | 56 | EPA 6010D | | 12-14-20 | |
| Manganese | 530 | 11 | EPA 6010D | | 12-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|--|----------|--|
| Client ID: | FMW-06-121120 | | | | | |
| Laboratory ID: | 12-128-06 | | | | | |
| Arsenic | ND | 3.0 | EPA 200.8 | | 12-14-20 | |

| | | | | | | |
|-------------------|----------------------|-----|-----------|--|----------|--|
| Client ID: | FMW-07-121120 | | | | | |
| Laboratory ID: | 12-128-07 | | | | | |
| Arsenic | 4.7 | 3.0 | EPA 200.8 | | 12-14-20 | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**DISSOLVED METALS
 EPA 6010D/200.8
 QUALITY CONTROL**

Matrix: Water
 Units: ug/L (ppb)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|----------|-----|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1214D1 | | | | | |
| Arsenic | ND | 3.0 | EPA 200.8 | | 12-14-20 | |
| | | | | | | |
| Laboratory ID: | MB1214D1 | | | | | |
| Aluminum | ND | 110 | EPA 6010D | | 12-14-20 | |
| Iron | ND | 56 | EPA 6010D | | 12-14-20 | |
| Manganese | ND | 11 | EPA 6010D | | 12-14-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-128-02 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Arsenic | ND | ND | NA | NA | NA | NA | 20 | |
| | | | | | | | | |
| Laboratory ID: | 12-128-02 | | | | | | | |
| Aluminum | ND | ND | NA | NA | NA | NA | 20 | |
| Iron | 1540 | 1540 | NA | NA | NA | 0 | 20 | |
| Manganese | 477 | 473 | NA | NA | NA | 1 | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|-----------|-------|-------|-------|------|-----|-----|--------|---|----|
| Laboratory ID: | 12-128-02 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Arsenic | 80.4 | 82.0 | 80.0 | 80.0 | ND | 101 | 103 | 75-125 | 2 | 20 |
| | | | | | | | | | | |
| Laboratory ID: | 12-128-02 | | | | | | | | | |
| Aluminum | 22500 | 22500 | 22200 | 22200 | ND | 102 | 102 | 75-125 | 0 | 20 |
| Iron | 24200 | 24200 | 22200 | 22200 | 1540 | 102 | 102 | 75-125 | 0 | 20 |
| Manganese | 985 | 992 | 556 | 556 | 477 | 91 | 93 | 75-125 | 1 | 20 |



Date of Report: December 16, 2020
Samples Submitted: December 11, 2020
Laboratory Reference: 2012-128
Project: 650-031

**TOTAL METALS
EPA 7471B**

Matrix: Soil
Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|----------------|-----------|------|-----------|---------------|---------------|-------|
| Client ID: | FB-28-1.5 | | | | | |
| Laboratory ID: | 12-128-08 | | | | | |
| Mercury | ND | 0.31 | EPA 7471B | 12-15-20 | 12-15-20 | |



Date of Report: December 16, 2020
 Samples Submitted: December 11, 2020
 Laboratory Reference: 2012-128
 Project: 650-031

**TOTAL METALS
 EPA 7471B
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg (ppm)

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|---------------------|-----------|------|-----------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB1215S1 | | | | | |
| Mercury | ND | 0.25 | EPA 7471B | 12-15-20 | 12-15-20 | |

| Analyte | Result | Spike Level | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|------------------|-----------|-------------|---------------|------------------|-----------------|-----|-----------|-------|
| DUPLICATE | | | | | | | | |
| Laboratory ID: | 12-116-01 | | | | | | | |
| | ORIG | DUP | | | | | | |
| Mercury | ND | ND | NA | NA | NA | NA | 20 | |

MATRIX SPIKES

| | | | | | | | | | | |
|----------------|--------------|--------------|-------|-------|---------|------------|------------|--------|---|----|
| Laboratory ID: | 12-116-01 | | | | | | | | | |
| | MS | MSD | MS | MSD | MS | MSD | | | | |
| Mercury | 0.520 | 0.557 | 0.500 | 0.500 | 0.00850 | 102 | 110 | 80-120 | 7 | 20 |



Date of Report: December 16, 2020
Samples Submitted: December 11, 2020
Laboratory Reference: 2012-128
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|------------------|---------------|-------------------|----------------------|
| FB-28-1.5 | 12-128-08 | 21 | 12-14-20 |





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 methods 8260 & 8270, and therefore the reported result should be considered an estimate. The overall performance of the calibration verification standard met the acceptance criteria of the method.
- Z -
- ND - Not Detected at PQL
- PQL - Practical Quantitation Limit
- RPD - Relative Percent Difference





Chain of Custody

Page 1 of 1

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

Farallen

650-031

Thompson Field

S. Brown

SMB, EB

| | | | | | | | | | | | | | | | | | |
|--|------------------------------|--------------------|--|------------------|--|---|--|--|--|--|--|--|--|--|--|--|--|
| ENVI-CHEMICAL INC. Analytical Laboratory Testing Services 14648 NE 95th Street • Redmond, WA 98052 Phone: (425) 883-3881 • www.onsite-env.com | | | Turnaround Request (in working days) <div>(Check One)</div> <div><input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day</div> <div><input type="checkbox"/> 2 Days <input checked="" type="checkbox"/> 3 Days</div> <div><input checked="" type="checkbox"/> Standard (7 Days)</div> <div><input type="checkbox"/> _____ (other)</div> | | | Laboratory Number: 12-128 | | | | | | | | | | | |
| Company: <u>Farallon</u> | | | | | | | | | | | | | | | | | |
| Project Number: <u>650-031</u> | | | | | | | | | | | | | | | | | |
| Project Name: <u>Thompson Field</u> | | | | | | | | | | | | | | | | | |
| Project Manager: <u>S. Brown</u> | | | | | | | | | | | | | | | | | |
| Sampled by: <u>SWB, EB</u> | | | | | | | | | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | | | | | | | |
| 1 | FML-04-121120 | 12/11/20 | 1200 | GL | 2 | NWTPH-HCID | | | | | | | | | | | |
| 2 | FML-03-121120 | | 1240 | | 4 | NWTPH-Gx/BTEX | | | | | | | | | | | |
| 3 | FML-02-121120 | | 1330 | | 4 | NWTPH-Gx | | | | | | | | | | | |
| 4 | FML-05-121120 | | 1044 | | 2 | NWTPH-Dx (<input type="checkbox"/> Acid / SG Clean-up) <u>with & without SG</u> | | | | | | | | | | | |
| 5 | FML-01-121120 | | 1133 | | 2 | Volatiles 8260C | | | | | | | | | | | |
| 6 | FML-06-121120 | | 1324 | | 4 | Halogenated Volatiles 8260C | | | | | | | | | | | |
| 7 | FML-07-121120 | | 1235 | | 4 | EDB EPA 8011 (Waters Only) | | | | | | | | | | | |
| 8 | FB-28-1.5 | ✓ | 1430 | 50.1 | 2 | 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 | | | | | | | | | | | |
| | | | | | | <u>Al, Fe, Mn total/dissolved</u> | | | | | | | | | | | |
| | | | | | | <u>As total/dissolved</u> | | | | | | | | | | | |
| | | | | | | <u>Hg</u> | | | | | | | | | | | |
| | | | | | | % Moisture | | | | | | | | | | | |
| Relinquished | Signature <u>[Signature]</u> | Company <u>FLN</u> | Date <u>12/11/20</u> | Time <u>1445</u> | Comments/Special Instructions <u>-Run all metals on 3 day turn</u> <u>-Run Dx on standard turn</u> <u>-run Dx with and without silica gel</u> | | | | | | | | | | | | |
| Received | | | | | Data Package: Standard <input type="checkbox"/> Level III <input type="checkbox"/> Level IV <input type="checkbox"/> | | | | | | | | | | | | |
| Relinquished | | | | | Chromatograms with final report <input type="checkbox"/> Electronic Data Deliverables (EDDs) <input type="checkbox"/> | | | | | | | | | | | | |
| Received | | | | | | | | | | | | | | | | | |
| Relinquished | | | | | | | | | | | | | | | | | |
| Reviewed/Date | | | | | | | | | | | | | | | | | |



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

January 14, 2021

Stuart Brown
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2101-064

Dear Stuart:

Enclosed are the analytical results and associated quality control data for samples submitted on January 8, 2021.

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

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

Sincerely,

A handwritten signature in black ink, appearing to read 'DB', with a long horizontal line extending to the right.

David Baumeister
Project Manager

Enclosures



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: January 14, 2021
Samples Submitted: January 8, 2021
Laboratory Reference: 2101-064
Project: 650-031

Case Narrative

Samples were collected on January 8, 2021 and received by the laboratory on January 8, 2021. 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: January 14, 2021
 Samples Submitted: January 8, 2021
 Laboratory Reference: 2101-064
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | FB-29-14.0 | | | | | |
| Laboratory ID: | 01-064-06 | | | | | |
| Naphthalene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| 2-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| 1-Methylnaphthalene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Acenaphthylene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Acenaphthene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Fluorene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Phenanthrene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Anthracene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Pyrene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Benzo[a]anthracene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Chrysene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Benzo[b]fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Benzo(j,k)fluoranthene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Benzo[a]pyrene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Dibenz[a,h]anthracene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| Benzo[g,h,i]perylene | ND | 0.0074 | EPA 8270E/SIM | 1-12-21 | 1-13-21 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 71 | 46 - 113 | | | | |
| Pyrene-d10 | 80 | 45 - 114 | | | | |
| Terphenyl-d14 | 90 | 49 - 121 | | | | |



Date of Report: January 14, 2021
 Samples Submitted: January 8, 2021
 Laboratory Reference: 2101-064
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0112S1 | | | | | |
| Naphthalene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| 2-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| 1-Methylnaphthalene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Acenaphthylene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Acenaphthene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Fluorene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Phenanthrene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Anthracene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Pyrene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Benzo[a]anthracene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Chrysene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Benzo[b]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Benzo[j,k]fluoranthene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Benzo[a]pyrene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Dibenz[a,h]anthracene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| Benzo[g,h,i]perylene | ND | 0.0067 | EPA 8270E/SIM | 1-12-21 | 1-12-21 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 97 | 46 - 113 | | | | |
| Pyrene-d10 | 96 | 45 - 114 | | | | |
| Terphenyl-d14 | 112 | 49 - 121 | | | | |



Date of Report: January 14, 2021
 Samples Submitted: January 8, 2021
 Laboratory Reference: 2101-064
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Soil
 Units: mg/Kg

| Analyte | Result | | Spike Level | | Source Result | Percent Recovery | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|-----------|--------|-------------|--------|---------------|------------------|-----------------|----------|-----------|-------|
| MATRIX SPIKES | | | | | | | | | | |
| Laboratory ID: | 01-047-03 | | | | | | | | | |
| | MS | MSD | MS | MSD | | MS | MSD | | | |
| Naphthalene | 0.0744 | 0.0759 | 0.0833 | 0.0833 | ND | 89 | 91 | 51 - 115 | 2 | 26 |
| Acenaphthylene | 0.0721 | 0.0704 | 0.0833 | 0.0833 | ND | 87 | 85 | 53 - 121 | 2 | 24 |
| Acenaphthene | 0.0718 | 0.0677 | 0.0833 | 0.0833 | ND | 86 | 81 | 52 - 121 | 6 | 25 |
| Fluorene | 0.0783 | 0.0747 | 0.0833 | 0.0833 | ND | 94 | 90 | 58 - 127 | 5 | 23 |
| Phenanthrene | 0.0799 | 0.0784 | 0.0833 | 0.0833 | ND | 96 | 94 | 46 - 129 | 2 | 28 |
| Anthracene | 0.0844 | 0.0827 | 0.0833 | 0.0833 | ND | 101 | 99 | 57 - 124 | 2 | 21 |
| Fluoranthene | 0.0841 | 0.0799 | 0.0833 | 0.0833 | ND | 101 | 96 | 46 - 136 | 5 | 29 |
| Pyrene | 0.0858 | 0.0840 | 0.0833 | 0.0833 | ND | 103 | 101 | 41 - 136 | 2 | 32 |
| Benzo[a]anthracene | 0.0783 | 0.0794 | 0.0833 | 0.0833 | ND | 94 | 95 | 56 - 136 | 1 | 25 |
| Chrysene | 0.0816 | 0.0814 | 0.0833 | 0.0833 | ND | 98 | 98 | 49 - 130 | 0 | 22 |
| Benzo[b]fluoranthene | 0.0848 | 0.0804 | 0.0833 | 0.0833 | ND | 102 | 97 | 51 - 135 | 5 | 26 |
| Benzo(j,k)fluoranthene | 0.0776 | 0.0814 | 0.0833 | 0.0833 | ND | 93 | 98 | 56 - 124 | 5 | 23 |
| Benzo[a]pyrene | 0.0794 | 0.0793 | 0.0833 | 0.0833 | ND | 95 | 95 | 54 - 133 | 0 | 26 |
| Indeno(1,2,3-c,d)pyrene | 0.0800 | 0.0824 | 0.0833 | 0.0833 | ND | 96 | 99 | 52 - 134 | 3 | 20 |
| Dibenz[a,h]anthracene | 0.0795 | 0.0802 | 0.0833 | 0.0833 | ND | 95 | 96 | 58 - 127 | 1 | 17 |
| Benzo[g,h,i]perylene | 0.0795 | 0.0806 | 0.0833 | 0.0833 | ND | 95 | 97 | 54 - 129 | 1 | 21 |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | | 78 | 71 | 46 - 113 | | |
| Pyrene-d10 | | | | | | 87 | 85 | 45 - 114 | | |
| Terphenyl-d14 | | | | | | 93 | 94 | 49 - 121 | | |



Date of Report: January 14, 2021
Samples Submitted: January 8, 2021
Laboratory Reference: 2101-064
Project: 650-031

% MOISTURE

| Client ID | Lab ID | % Moisture | Date Analyzed |
|-------------------|---------------|-------------------|----------------------|
| FB-29-14.0 | 01-064-06 | 10 | 1-13-21 |





Data Qualifiers and Abbreviations

- A - Due to a high sample concentration, the amount spiked is insufficient for meaningful MS/MSD recovery data.
- B - The analyte indicated was also found in the blank sample.
- C - The duplicate RPD is outside control limits due to high result variability when analyte concentrations are within five times the quantitation limit.
- E - The value reported exceeds the quantitation range and is an estimate.
- F - Surrogate recovery data is not available due to the high concentration of coeluting target compounds.
- H - The analyte indicated is a common laboratory solvent and may have been introduced during sample preparation, and be impacting the sample result.
- I - Compound recovery is outside of the control limits.
- J - The value reported was below the practical quantitation limit. The value is an estimate.
- K - Sample duplicate RPD is outside control limits due to sample inhomogeneity. The sample was re-extracted and re-analyzed with similar results.
- L - The RPD is outside of the control limits.
- M - Hydrocarbons in the gasoline range are impacting the diesel range result.
- M1 - Hydrocarbons in the gasoline range (toluene-naphthalene) are present in the sample.
- N - Hydrocarbons in the lube oil range are impacting the diesel range result.
- N1 - Hydrocarbons in diesel range are impacting lube oil range results.
- O - Hydrocarbons indicative of heavier fuels are present in the sample and are impacting the gasoline result.
- P - The RPD of the detected concentrations between the two columns is greater than 40.
- Q - Surrogate recovery is outside of the control limits.
- S - Surrogate recovery data is not available due to the necessary dilution of the sample.
- T - The sample chromatogram is not similar to a typical _____.
- U - The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- U1 - The practical quantitation limit is elevated due to interferences present in the sample.
- V - Matrix Spike/Matrix Spike Duplicate recoveries are outside control limits due to matrix effects.
- W - Matrix Spike/Matrix Spike Duplicate RPD are outside control limits due to matrix effects.
- X - Sample extract treated with a mercury cleanup procedure.
- X1 - Sample extract treated with a sulfuric acid/silica gel cleanup procedure.
- Y - The calibration verification for this analyte exceeded the 20% drift specified in methods 8260 & 8270, 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

| Company: | | | | | |
|---|--|--|--|--|--|
| Project Number: | | | | | |
| Project Name: | | | | | |
| Project Manager: | | | | | |
| Sampled by: | | | | | |
| Date Sampled | | | | | |
| Time Sampled | | | | | |
| Matrix | | | | | |
| Number of Containers | | | | | |
| 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 | | | | | |

| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers |
|--------|-----------------------|--------------|--------------|--------|----------------------|
| 1 | FMM-8-1.0 | 1/8/21 | 0920 | S | 1 |
| 2 | FMM-8-5.0 | | 0925 | S | 1 |
| 3 | FMM-8-13.0 | | 0930 | S | 1 |
| 4 | FR-29--5.0 | | 1207 | S | 1 |
| 5 | FB-29-10.0 | | 1212 | S | 1 |
| 6 | FB-29-14.0 | | 1217 | S | 1 |

| Signature | Company | Date | Time | Comments/Special Instructions |
|-------------|---------|--------|-------|----------------------------------|
| [Signature] | FLN | 1/8/21 | 1400 | *contact PM for analyses and TAT |
| | OSF | 1/8/21 | 14:00 | X added 1/8/21. DB (STA) |

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

January 20, 2021

Stuart Brown
Farallon Consulting
975 5th Avenue NW
Issaquah, WA 98027

Re: Analytical Data for Project 650-031
Laboratory Reference No. 2101-140

Dear Stuart:

Enclosed are the analytical results and associated quality control data for samples submitted on January 18, 2021.

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: January 20, 2021
Samples Submitted: January 18, 2021
Laboratory Reference: 2101-140
Project: 650-031

Case Narrative

Samples were collected on January 18, 2021 and received by the laboratory on January 18, 2021. 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: January 20, 2021
 Samples Submitted: January 18, 2021
 Laboratory Reference: 2101-140
 Project: 650-031

PAHs EPA 8270E/SIM

Matrix: Water
 Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| Client ID: | | FMW-08-011821 | | | | |
| Laboratory ID: | | 01-140-01 | | | | |
| Naphthalene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| 2-Methylnaphthalene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| 1-Methylnaphthalene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Acenaphthylene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Acenaphthene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Fluorene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Phenanthrene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Anthracene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Fluoranthene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Pyrene | ND | 0.097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[a]anthracene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Chrysene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[b]fluoranthene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[j,k]fluoranthene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[a]pyrene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Dibenz[a,h]anthracene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[g,h,i]perylene | ND | 0.0097 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 68 | 20 - 106 | | | | |
| Pyrene-d10 | 89 | 26 - 104 | | | | |
| Terphenyl-d14 | 99 | 44 - 127 | | | | |



Date of Report: January 20, 2021
 Samples Submitted: January 18, 2021
 Laboratory Reference: 2101-140
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | PQL | Method | Date Prepared | Date Analyzed | Flags |
|-------------------------|-------------------------|-----------------------|---------------|---------------|---------------|-------|
| METHOD BLANK | | | | | | |
| Laboratory ID: | MB0119W1 | | | | | |
| Naphthalene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| 2-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| 1-Methylnaphthalene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Acenaphthylene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Acenaphthene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Fluorene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Phenanthrene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Anthracene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Fluoranthene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Pyrene | ND | 0.10 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[a]anthracene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Chrysene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[b]fluoranthene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo(j,k)fluoranthene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[a]pyrene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Indeno(1,2,3-c,d)pyrene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Dibenz[a,h]anthracene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| Benzo[g,h,i]perylene | ND | 0.010 | EPA 8270E/SIM | 1-19-21 | 1-19-21 | |
| <i>Surrogate:</i> | <i>Percent Recovery</i> | <i>Control Limits</i> | | | | |
| 2-Fluorobiphenyl | 68 | 20 - 106 | | | | |
| Pyrene-d10 | 90 | 26 - 104 | | | | |
| Terphenyl-d14 | 103 | 44 - 127 | | | | |



Date of Report: January 20, 2021
 Samples Submitted: January 18, 2021
 Laboratory Reference: 2101-140
 Project: 650-031

**PAHs EPA 8270E/SIM
 QUALITY CONTROL**

Matrix: Water

Units: ug/L

| Analyte | Result | | Spike Level | | Percent Recovery | | Recovery Limits | RPD | RPD Limit | Flags |
|-------------------------|----------|-------|-------------|-------|------------------|-----|-----------------|-----|-----------|-------|
| SPIKE BLANKS | | | | | | | | | | |
| Laboratory ID: | SB0119W1 | | | | | | | | | |
| | SB | SBD | SB | SBD | SB | SBD | | | | |
| Naphthalene | 0.374 | 0.334 | 0.500 | 0.500 | 75 | 67 | 30 - 98 | 11 | 40 | |
| Acenaphthylene | 0.400 | 0.392 | 0.500 | 0.500 | 80 | 78 | 39 - 106 | 2 | 32 | |
| Acenaphthene | 0.379 | 0.365 | 0.500 | 0.500 | 76 | 73 | 36 - 114 | 4 | 33 | |
| Fluorene | 0.420 | 0.425 | 0.500 | 0.500 | 84 | 85 | 45 - 112 | 1 | 30 | |
| Phenanthrene | 0.451 | 0.433 | 0.500 | 0.500 | 90 | 87 | 51 - 109 | 4 | 24 | |
| Anthracene | 0.465 | 0.455 | 0.500 | 0.500 | 93 | 91 | 49 - 109 | 2 | 25 | |
| Fluoranthene | 0.517 | 0.541 | 0.500 | 0.500 | 103 | 108 | 53 - 115 | 5 | 22 | |
| Pyrene | 0.536 | 0.550 | 0.500 | 0.500 | 107 | 110 | 49 - 129 | 3 | 32 | |
| Benzo[a]anthracene | 0.523 | 0.508 | 0.500 | 0.500 | 105 | 102 | 61 - 123 | 3 | 24 | |
| Chrysene | 0.552 | 0.552 | 0.500 | 0.500 | 110 | 110 | 59 - 114 | 0 | 24 | |
| Benzo[b]fluoranthene | 0.583 | 0.545 | 0.500 | 0.500 | 117 | 109 | 60 - 125 | 7 | 26 | |
| Benzo(j,k)fluoranthene | 0.551 | 0.560 | 0.500 | 0.500 | 110 | 112 | 58 - 121 | 2 | 22 | |
| Benzo[a]pyrene | 0.549 | 0.539 | 0.500 | 0.500 | 110 | 108 | 58 - 118 | 2 | 24 | |
| Indeno(1,2,3-c,d)pyrene | 0.498 | 0.495 | 0.500 | 0.500 | 100 | 99 | 59 - 124 | 1 | 26 | |
| Dibenz[a,h]anthracene | 0.516 | 0.515 | 0.500 | 0.500 | 103 | 103 | 59 - 123 | 0 | 25 | |
| Benzo[g,h,i]perylene | 0.545 | 0.531 | 0.500 | 0.500 | 109 | 106 | 58 - 120 | 3 | 25 | |
| Surrogate: | | | | | | | | | | |
| 2-Fluorobiphenyl | | | | | 72 | 65 | 20 - 106 | | | |
| Pyrene-d10 | | | | | 99 | 96 | 26 - 104 | | | |
| Terphenyl-d14 | | | | | 119 | 109 | 44 - 127 | | | |





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 methods 8260 & 8270, 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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Analytical Laboratory Testing Services
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Chain of Custody

| | | | | | | | | | | | |
|--------------------------------------|-----------------------|--|--------------|---|----------------------|---|--|--|--|--|--|
| Company: Farallon | | Turnaround Request (in working days) | | Laboratory Number: 01-140 | | | | | | | |
| Project Number: 650-031 | | <input type="checkbox"/> Same Day <input type="checkbox"/> 1 Day | | | | | | | | | |
| Project Name: Gushy Manor | | <input type="checkbox"/> 2 Days <input type="checkbox"/> 3 Days | | | | | | | | | |
| Project Manager: Stuart Brown | | <input checked="" type="checkbox"/> Standard (7 Days) | | | | | | | | | |
| Sampled by: Emi Smith | | <input type="checkbox"/> (other) _____ | | | | | | | | | |
| Lab ID | Sample Identification | Date Sampled | Time Sampled | Matrix | Number of Containers | | | | | | |
| 1 | FMN-08-011821 | 11/8/21 | | N | 2 | | | | | | |
| <div>ES</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 | | | | | | | | | | | |
| TCLP Metals | | | | | | | | | | | |
| HEM (oil and grease) 1664A | | | | | | | | | | | |
| % Moisture | | | | | | | | | | | |
| Signature | | Company | | Date | | | | | | | |
| Emi Smith | | Farallon | | 11/8/21 1315 | | | | | | | |
| Relinquished | | Received | | Relinquished | | | | | | | |
| Received | | Relinquished | | Received | | | | | | | |
| Relinquished | | Received | | 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"/> | | | | | | | |

APPENDIX D
SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

REMEDIAL INVESTIGATION REPORT
Thompson Field Site
Portion of King County Parcel No. 0825069104
Redmond, WA

Farallon PN: 650-031

TECHNICAL MEMORANDUM

TO: Thomas L. Markl – Nelson Legacy Group, LLC

FROM: Mathew Luxon, Ecotoxicologist, Ecozoic Environmental Consulting, LLC
Stuart Brown, Project Environmental Scientist, Farallon Consulting, L.L.C.
Clifford T. Schmitt, L.G., L.H.G., Principal Hydrogeologist, Farallon Consulting, L.L.C.

DATE: April 6, 2021

RE: **SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION
THOMPSON FIELD SITE
KING COUNTY PARCEL NO. 0825069104
REDMOND, WASHINGTON
FARALLON PN: 650-031**

Ecozoic, LLC and Farallon Consulting, L.L.C. (Farallon) have prepared this Technical Memorandum to present the results of the site-specific terrestrial ecological evaluation (TEE) conducted for the Thompson Field Site located on a portion of King County Parcel No. 0825069104 in Redmond, Washington (Figure 1). For this evaluation chemicals of ecological concern in soil and groundwater were evaluated separately. A discussion of habitats and ecological receptors is provided, followed by the soil and groundwater terrestrial ecological risk assessments. Locations of soil and groundwater samples discussed in this Technical Memorandum are shown on Figure 2.

References for documents cited in this Technical Memorandum and associated tables are listed in Attachment A. A TEE Form completed for the Thompson Field Site is included in Attachment B.

SOIL CHEMICALS OF ECOLOGICAL CONCERN

In accordance with Section 7493(2)(a)(i) of Chapter 340 of the Washington Administrative Code (WAC 173-340-7493(2)(a)(i)), chemicals of ecological concern were identified as those chemicals for which the exposure point concentration (EPC) exceeds an Ecological Indicator Soil Concentration (EISC) for plants, soil biota, or wildlife (Table 1). EISCs are those reported in the Washington State Model Toxics Control Act Cleanup Regulation (MTCA) Table 749-3 and presented in Table 1. For chemicals where no EISC is provided in MTCA Table 749-3, protective concentrations were identified based on a literature search using the Oak Ridge National



Laboratory Risk Assessment Information System Ecological Benchmark Tool (Ecological Benchmark Tool) (Oak Ridge National Laboratory 2021). The Ecological Benchmark Tool is a database of screening level chemical concentrations in environmental media that are at or less than thresholds for effects to ecological receptors. U.S. Environmental Protection Agency (EPA) Ecological Soil Screening Levels were selected if available (EPA 2021). Consistent with MTCA, Washington State natural background concentrations were selected as EISCs if background concentrations in soils exceeded identified screening levels. Natural background concentrations were used as EISCs for aluminum, chromium, iron, nickel, and vanadium. Washington State 90th percentile natural background concentrations of aluminum, chromium and iron were those reported in *Natural Background Soil Metals Concentrations in Washington State* dated October 1994, prepared by the Washington State Department of Ecology (Ecology) (1994). Natural background 90th percentile concentrations of nickel and vanadium were calculated using natural background concentrations in Washington State soils based on a more recent U.S. Geological Survey report (Smith et al. 2013). Specifically, 90th percentile upper tolerance limits (UTLs) for vanadium and nickel were calculated using all A-horizon soils data from Washington State west of longitude -120° using MTCA State Background Module (Ecology 2021) (Table 2).

EPCs were calculated as the Site-wide maximum or 95 percent upper confidence limit on the mean (UCL95) soil concentrations. For chemicals with maximum concentrations exceeding EISCs, the Site-wide UCL95 was calculated using EPA's ProUCL 5.1 (EPA 2015) and following Ecology ProUCL Draft Guidelines (Ecology 2017). Chemicals were not considered chemicals of ecological concern if they met the following criteria:

- The maximum concentration is less than the EISC; or
- The UCL95 is less than the EISC; and
 - No single sample concentration is greater than two times the EISC; and
 - Less than 10 percent of the sample concentrations exceed the EISC.

The screening for identifying chemicals of ecological concern is presented in Table 1 for all detected chemicals. Based on this screening, combined total petroleum hydrocarbons as diesel-range organics (DRO) and oil-ranged organics (ORO), and selenium were retained as chemicals of ecological concern for further evaluation (Table 3).

GROUNDWATER CHEMICALS OF ECOLOGICAL CONCERN

Screening of groundwater chemicals of ecological concern was conducted in two steps in accordance with WAC 173-340-730. In the first step, preliminary groundwater chemicals of ecological concern were identified as those chemicals with maximum detected concentrations in groundwater samples that exceeded concentrations protective of surface water aquatic organisms (freshwater chronic criteria) as specified in WAC 173-340-730. Per WAC 173-340-730(3)(b), for chemicals where no surface water criterion is established in state of federal regulations, concentrations that are estimated to result in no adverse effects on the protection and propagation of wildlife, fish, and other aquatic life were identified based on a literature search using the



Ecological Benchmark Tool (Oak Ridge National Laboratory 2021). The surface water benchmark criteria used for the screening of groundwater chemicals of ecological concern are collectively referred to herein as Screening Level Values (SLVs). In the second screening step, concentrations of preliminary chemicals of ecological concern in groundwater samples collected from the most down-gradient monitoring wells at the Thompson Field Site prior to discharge to surface water were compared to surface water concentrations protective of aquatic life. As described in Section 3.4.1 of the Remedial Investigation Report (Farallon 2021), groundwater at the Thompson Field Site is interpreted as flowing radially from the center of Thompson Field with an overall flow to the northeast and to the northwest, potentially discharging to drainage ditches surrounding Thompson Field, which in turn flow to Evans Creek. Thus, concentrations of chemicals in groundwater samples collected from monitoring wells FMW-08, FMW-05, and FMW-01 represent the most down-gradient groundwater sampling points prior to potential discharge to surface water (Figure 2). Based on this two-step screening process for groundwater chemicals of ecological concern, iron and manganese were retained for further evaluation (Table 4).

HABITATS AND ECOLOGICAL RECEPTORS OF CONCERN

A review of available information was conducted to identify species that may potentially use Thompson Field. Thompson Field comprises approximately 12 acres. Landcover consists of mown fields with drainage ditches surrounded by shrub and forest cover. A mapped wetland is south of the Thompson Field Site. This wetland is contiguous with the Evans Creek Natural Area, a 38-acre area managed by King County Department of Natural Resources and Parks Ecological Land for the protection of ecological values. The Washington Department of Fish and Wildlife Priority Habitats and Species (PHS) database (Washington Department of Fish and Wildlife 2020) was queried for the parcel containing the Thompson Field Site (Attachment C). The PHS database lists habitats including wetlands, freshwater forested and/or shrub wetlands, and freshwater emergent wetlands as existing on King County Parcel No. 0825069104. The PHS database also lists Chinook salmon, a federally threatened species, and Coho salmon, a federal candidate species as occurring in Evans Creek located to the south and west of the Thompson Field Site and connected to the wetland located south of the Thompson Field Site.

Evans Creek is home to other native fish and provides substantial habitat for a variety of aquatic animals and plants. Evans Creek Natural Area habitat is predominantly scrub-shrub wetlands with a small forest component (King County 2003). The Evans Creek Natural Area provides habitat for a variety of bird and mammalian wildlife including raptors such as red-tailed hawk, osprey, and bald eagle, and other birds including Swainson's thrush, tree swallows, and woodpeckers. Mammals include abundant blacktail deer and coyote, abundant beavers along the shores of Evans Creek; likely raccoons, river otter, muskrat, and mink; and potentially bear, cougar, and bobcat. In addition, small mammals such as shrews, mice, voles, squirrels, and weasels occur. Finally, a wide variety of unidentified amphibians and reptiles are believed to inhabit the wetland areas (King County 2003).



SOIL ECOLOGICAL RISK ASSESSMENT

Based on the chemicals of ecological concern and species potentially present at the Thompson Field Site, risk from the soil chemicals of ecological concern presented in Table 3 was assessed for the indicated representative receptor species. These representative receptors could be exposed to chemicals of ecological concern through either direct contact with soils or ingestion of contaminated prey.

Site-specific exposure data and the underlying toxicological information associated with selected EISCs were reviewed for each receptor and chemical of ecological concern to evaluate the risk of adverse ecological effects for each receptor.

DRO AND ORO

The Thompson Field soil combined DRO and ORO EPC, 210 milligrams per kilogram (mg/kg), does not exceed the soil biota EISC for DRO, 260 mg/kg. The Thompson Field soil combined DRO and ORO EPC also does not exceed the DRO soil screening level of 460 mg/kg for sites that qualify for the simplified TEE (MTCA Table 749-2). Additionally, none of the soil samples collected at the Thompson Field Site had a concentration greater than two times the EISC. However, the combined DRO and ORO concentration in more than 10 percent of soil samples (i.e., 27 percent) collected at the Thompson Field Site exceed the EISC, thus, DRO was identified as a soil chemical of ecological concern.

The soil biota EISC was derived from toxicity testing of weathered DRO-contaminated soils (Ecology 2016). Ecology (2016) conducted earthworm bioassays for 54 samples collected from 11 petroleum-contaminated sites throughout Washington State. Toxicity was considered evident if the bioassay results were significantly more impacted than uncontaminated control samples. Significant effects on earthworm survival were observed in 18 samples with DRO concentrations ranging from 260 to 20,000 mg/kg. DRO concentrations associated with no-toxicity ranged from 35 to 1,400 mg/kg. ORO-contaminated soils did not show toxicity at concentrations less than 3,800 mg/kg.

Of the eight soil samples collected at the Thompson Field Site with combined DRO and ORO exceeding the EISC, ORO constitutes from 66 to 90 percent of the total combined DRO and ORO concentration. The maximum DRO concentration (without ORO added) in soil was 120 mg/kg, which is less than half the lowest observed adverse effects level for DRO reported by Ecology (2016).

DRO is a complex mixture and wildlife chronic toxicity from dietary and direct contact exposure is attributed primarily to polycyclic aromatic hydrocarbons (PAHs) (Irwin 1997). Concentrations of PAHs in soil samples collected at the Thompson Field Site do not exceed their respective EISCs (Table 1).¹ The combined DRO and ORO concentrations are highly conservative estimates of the

¹ PAHs were detected in a soil sample collected from boring FB-20 at a depth of approximately 5.0 feet bgs at concentrations exceeding ecological screening levels. The Feasibility Study that will be generated for the Thompson



total petroleum hydrocarbons fractions associated with earthworm toxicity observed by Ecology (2016) since the predominant fraction of the combined DRO and ORO concentrations in soil samples at the Thompson Field Site is ORO, which showed a much lower toxicity in the Ecology (2016) study than DRO. Based on Thompson Field Site soil chemistry data and Ecology (2016) toxicological testing results, the combined DRO and ORO concentrations pose negligible risk to ecological receptors.

SELENIUM

Selenium was detected at a concentration of 3.2 mg/kg, which exceeds MTCA screening level for plants and the EPA Ecological Soil Screening Levels for wildlife in the sample collected at a depth of 8 to 10 feet below ground surface from boring BH02 (Table 1). This sample interval is interpreted as native material below the fill material. Selenium was not detected at a concentration at or exceeding the laboratory practical quantitation limit in the surface soil sample collected from the fill material at boring BH02. In all other samples with detections of selenium, including one surface soil sample, concentrations were less than the EISCs. Based on the sample depth of 8 to 10 feet below ground surface, low detection frequency, and low detected concentrations in other samples; the presence of selenium poses negligible risk to ecological receptors and the elevated concentration in one sample is likely associated with background concentrations.

GROUNDWATER ECOLOGICAL RISK ASSESSMENT

Iron and manganese were detected at concentrations exceeding the SLVs for groundwater in downgradient monitoring well FMW-08 at the Thompson Field Site. These chemicals could potentially leach to surface water resulting in exposure to aquatic biota receptors using the adjacent Evans Creek.

IRON

Dissolved iron concentrations in groundwater samples collected from three monitoring wells at the Thompson Field Site in 2020 ranged from 1,500 to 7,100 micrograms per liter ($\mu\text{g/l}$). A groundwater sample collected from monitoring well FWM-08, which is reflective of concentrations near the Thompson Field Site boundary prior to potential discharge to surface water, had a dissolved iron concentration of 5,700 $\mu\text{g/l}$ which exceeds the SLV (1000 $\mu\text{g/l}$). The SLV is a Tier II value noted to be uncertain because it is based on a site receiving acid mine drainage and derivation was not consistent with later methods for deriving ambient water quality criteria (Suter and Tsao 1996). Dissolved iron was detected at a concentration of 4,330 $\mu\text{g/l}$ in a background reconnaissance groundwater sample collected by Ecology and Environment (E&E) in 2020 from a boring adjacent to the Thompson Field Site.

Field Site will recommend excavation of soil at FB-20 exceeding MTCA Method A cleanup levels, therefore the PAH exceedances in soil at FB-20 is not relevant for this TEE.



While iron can be toxic at high concentrations, iron is among the most common elements in soil and there is no known source of a release of iron at the Thompson Field Site. In soil samples collected by E&E in 2020 (E&E 2020) at the Thompson Field Site, iron was detected at concentrations ranging from 12,700 to 21,400 mg/kg, which are less than the Washington State natural background concentration of 42,100 mg/kg (Ecology 1994) and are similar to iron concentrations of 12,900 to 19,600 mg/kg reported by E&E (2020) for nearby background soil samples. Iron was detected at concentrations exceeding ecological screening levels in three of four groundwater samples collected by E&E from off-site monitoring wells located approximately 0.4 mile to the northwest of Thompson Field (E&E 2020). Based on the available information, risk to surface water receptors from iron is highly uncertain and concentrations of iron in soil samples collected at the Thompson Field Site are believed to be representative of natural background.

MANGANESE

Dissolved manganese was detected at concentrations ranging from 190 to 530 µg/l in groundwater samples collected from three monitoring wells at the Thompson Field Site in 2020. A groundwater sample collected from monitoring well FWM-08, which is reflective of concentrations near the Thompson Field Site boundary prior to potential discharge to surface water, had a concentration of 190 µg/l manganese, which exceeds the SLV of 120 µg/l. Dissolved manganese was detected at a concentration of 226 µg/l in a background reconnaissance groundwater sample collected by E&E (2020) in 2020 from a boring adjacent to the Thompson Field Site. Manganese was also detected at elevated concentrations exceeding background concentrations in all but one of the groundwater samples collected by E&E from off-site monitoring wells located up to 0.4 mile from the Thompson Field Site (E&E 2020).

While manganese can be toxic at high concentrations, manganese is among the most common elements in soil and there is no known source of a release of manganese at the Thompson Field Site. In soil samples collected by E&E (2020) at the Thompson Field Site in 2020, manganese was detected at concentrations ranging from 159 to 424 mg/kg which are less than the Washington State natural background soil concentration of 1,100 mg/kg (Ecology 1994) and are similar to manganese concentrations of 166 to 225 mg/kg reported by E&E (2020) for nearby background soil samples. Based on the available information, risk to surface water receptors from concentrations of manganese at the Thompson Field Site is highly uncertain and concentrations are believed to be representative of natural background.

Attachments: Figure 1, *Site Vicinity*
Figure 2, *Property Plan*
Table 1, *Soil Ecological Screening Levels and Contaminants of Concern*
Table 2, *Natural Background Soil Concentrations of Nickel and Vanadium – Western Washington*
Table 3, *Ecological Chemicals of Concern for Soil*
Table 4, *Groundwater Chemicals of Ecological Concern Screening Assessment*



Table 5, *Soil Chemicals of Ecological Concern and Representative Receptors*
Attachment A, Bibliography
Attachment B, Terrestrial Ecological Evaluation Form
Attachment C, Washington Department of Fish and Wildlife Priority Habitats and
Species Reports

FIGURES

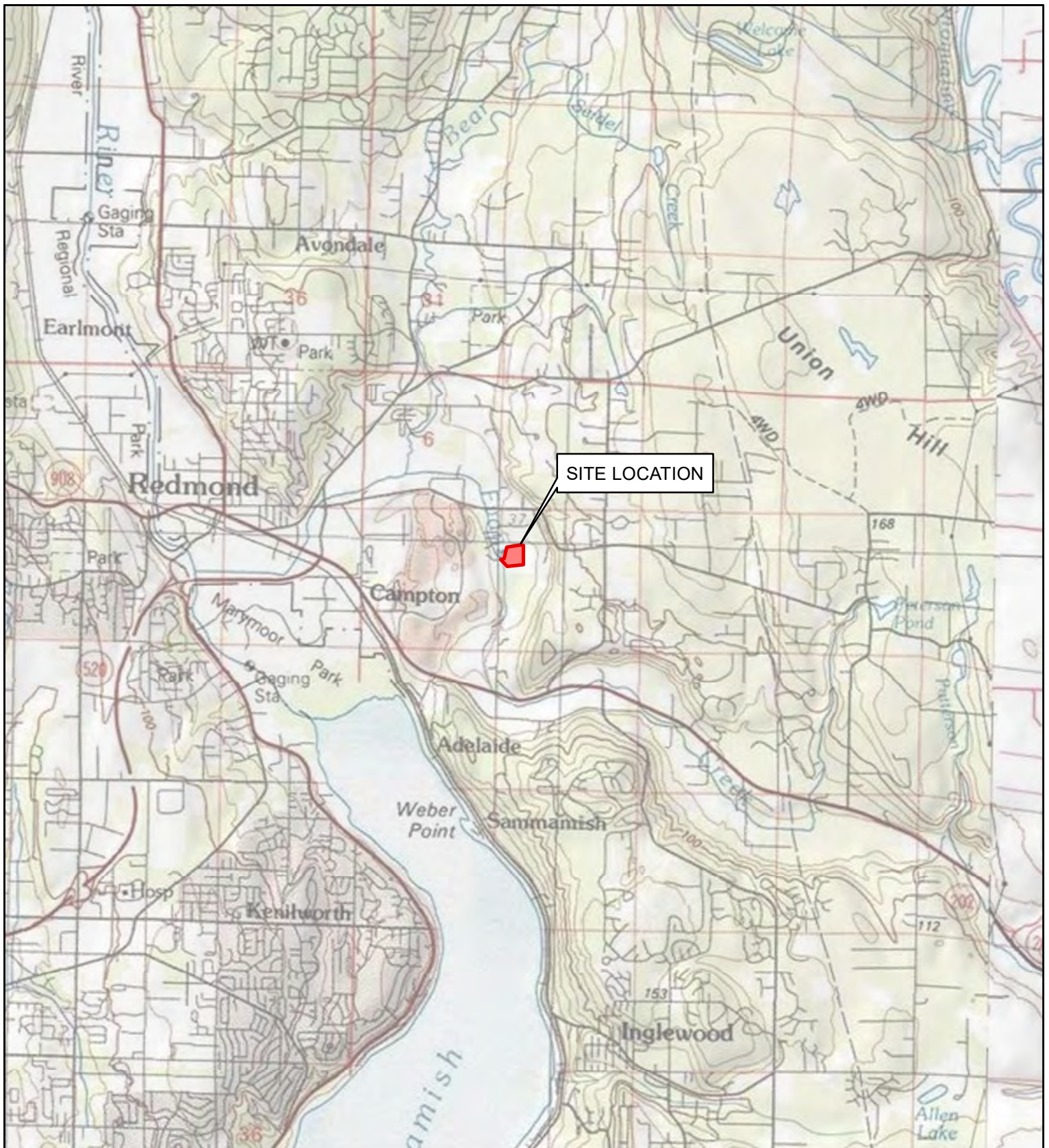
SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Thompson Field Site

A Portion of King County Parcel No. 0825069104

Redmond, Washington

Farallon PN: 650-031



REFERENCE: 7.5 MINUTE USGS QUADRANGLE REDMOND, WASHINGTON, DATED 2013



0 5,000
SCALE IN FEET



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Washington
Issaquah | Bellingham | Seattle

Oregon
Portland | Baker City

California
Oakland | Folsom | Irvine

Drawn By: j Jones

Checked By: SB

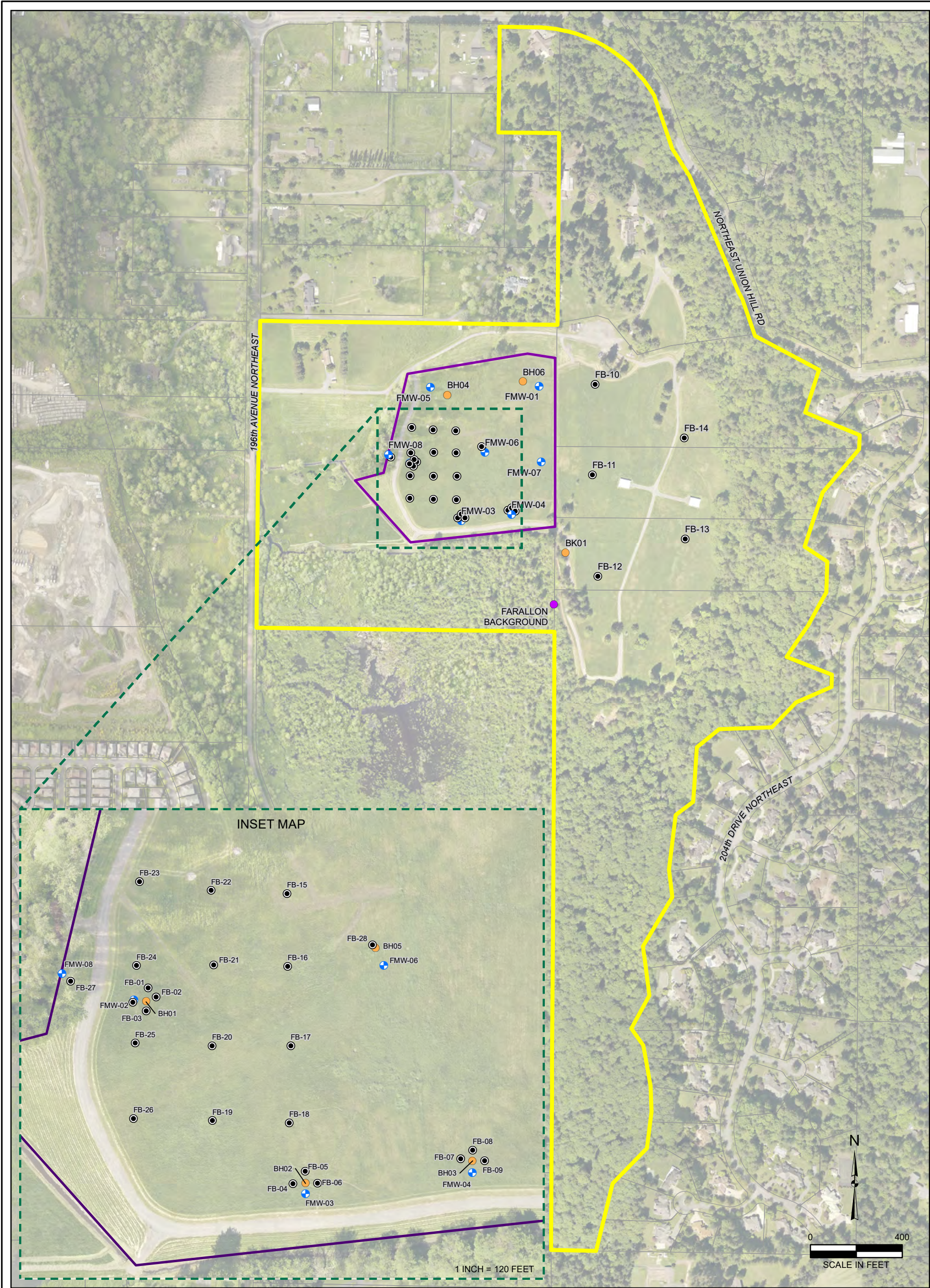
Date: 3/24/2021

Disc Reference:

Path: Q:\Projects\650 Nelson Properties\650031 Gunshy Farm\Mapfiles\006_Results_202103\Figure-01_SiteVicinity.mxd

FIGURE 1

SITE VICINITY MAP
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON
FARALLON PN: 650-031



LEGEND

- MONITORING WELL (FARALLON, 2020)
- BORING (FARALLON, 2020)
- BORING (ECOLOGY & ENVIRONMENT, INC, 2019)
- BACKGROUND GRAB SAMPLE (FARALLON, 2019)
- THOMPSON FIELD BOUNDARY
- PROPERTY BOUNDARY
- KING COUNTY PARCEL BOUNDARY

NOTES:

1. ALL LOCATIONS ARE APPROXIMATE.

2. FIGURES WERE PRODUCED IN COLOR. GRAYSCALE COPIES MAY NOT REPRODUCE ALL ORIGINAL INFORMATION.

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Washington
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California
Oakland | Folsom | Irvine

FIGURE 2

PROPERTY PLAN
THOMPSON FIELD
PORTION OF KING COUNTY
PARCEL NUMBER 0825069104
REDMOND, WASHINGTON

FARALLON PN: 650-031

Drawn By: jones

Checked By: SB

Date: 3/24/2021

Disc Reference:

Path: Q:\Projects\650 Nelson Properties\650031 Gunshy Farm\Mapfiles\006_Results_202103\Figure-02_PropertyPlan.mxd

TABLES

SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Thompson Field Site

A Portion of King County Parcel No. 0825069104

Redmond, Washington

Farallon PN: 650-031

Table 1
Soil Ecological Screening Levels and Contaminants of Concern
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical | Maximum Concentration (mg/kg-dw) | EF | EF (%) | UCL | Distribution | UCL Method | Screening Level | | Ecological Indicator Soil Concentration (EISC) | | | EISC Source ¹ | | | Chemical Class |
|-------------------------------------|--|------|--------|-----|--|------------------------------|--------------------|-------|---|------------|----------------------|--------------------------|------------------|----------|-------------------|
| | | | | | | | | | Plants | Soil Biota | Wildlife | Plants | Soil Biota | Wildlife | |
| | | | | | | | (mg/kg dw) | | | | | | | | |
| 2-Butanone (Methyl Ethyl Ketone) | 0.94 | 0/14 | 0.0% | NC | NC | NA | 89.6 | 89.6 | 89.6 | 89.6 | EPA 2003 | EPA 2003 | EPA 2003 | VOC | |
| Acetone | 4.5 | 1/18 | 5.6% | 1.6 | Gamma | 95% Gamma Adjusted KM-UCL | 2.5 | 2.5 | 2.5 | 2.5 | EPA 2003 | EPA 2003 | EPA 2003 | VOC | |
| Carbon Disulfide | 0.024 | 0/4 | 0.0% | NC | NC | NA | 94.1 | 94.1 | 94.1 | 94.1 | EPA 2003 | EPA 2003 | EPA 2003 | VOC | |
| m,p-Xylene | 0.0057 | 0/14 | 0.0% | NC | NC | NA | 10 | 10 | 10 | 10 | EPA 2003 | EPA 2003 | EPA 2003 | VOC | |
| Methylene Chloride | 0.023 | 0/18 | 0.0% | NC | NC | NA | 4.05 | 4.05 | 4.05 | 4.05 | EPA 2003 | EPA 2003 | EPA 2003 | VOC | |
| Dimethylphthalate | 0.99 | 0/14 | 0.0% | NC | NC | NA | 200 | 734 | 200 | 734 | EPA 2003 | MTCA Table 749-3 | EPA 2003 | SVOC | |
| Diesel-Range Organics (DRO+ORO) | 460 | 8/30 | 26.7% | 210 | Normal | 95% KM (t) UCL | 260 | 1,600 | 260 | 6,000 | Ecology 2017 | Ecology 2017 | MTCA Table 749-3 | TPH | |
| Naphthalene | 91 | 1/64 | 1.6% | 11 | No discernable distribution (log SD = 2.2) | 97.5% KM Chebyshev UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| 1-Methylnaphthalene | 23 | 1/64 | 1.6% | 4 | No discernable distribution (SD = 2.9) | 99% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| 2-Methylnaphthalene | 39 | 1/64 | 1.6% | 4.5 | lognormal (log SD = 2.5) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| Acenaphthene | 110 | 1/64 | 1.6% | 13 | lognormal (log SD = 2.9) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | MTCA Table 749-3 | assumed fluorene | EPA 2007b | LPAH | |
| Acenaphthylene | 3.2 | 0/64 | 0.0% | NC | NC | NA | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| Anthracene | 64 | 1/64 | 1.6% | 7.4 | No discernable distribution (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| Fluorene | 86 | 1/64 | 1.6% | 10 | lognormal (log SD = 2.8) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | MTCA Table 749-3 | EPA 2007b | LPAH | |
| Phenanthrene | 250 | 1/64 | 1.6% | 29 | lognormal (log SD = 2.7) | 97.5% KM (Chebyshev) UCL | 20 | 20 | 30 | 100 | assumed acenaphthene | assumed fluorene | EPA 2007b | LPAH | |
| Benzo(a)Anthracene | 27 | 1/64 | 1.6% | 3.2 | lognormal (log SD = 2.3) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH | |
| Benzo(a)Pyrene | 17 | 1/64 | 1.6% | 2 | lognormal (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | MTCA Table 749-3 | HPAH | |
| Benzo(b)Fluoranthene | 19 | 1/64 | 1.6% | 2.3 | lognormal (log SD = 2.1) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH | |
| Benzo(j,k)Fluoranthene | 6.1 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007a | Assumed BaP | HPAH | |
| Chrysene | 21 | 1/64 | 1.6% | 2.5 | lognormal (log SD = 2.2) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH | |
| Dibenzo(a,h)Anthracene | 2 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH | |
| Fluoranthene | 110 | 1/64 | 1.6% | 13 | lognormal (log SD = 2.5) | 97.5% KM (Chebyshev) UCL | 18 | 18 | 18 | 122 | assumed soil biota | EPA 2007b | EPA 2003 | HPAH | |
| Indeno(1,2,3-cd)Pyrene | 7.3 | 0/64 | 0.0% | NC | NC | NA | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH | |

Table 1
Soil Ecological Screening Levels and Contaminants of Concern
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| | Maximum Concentration | | | | | | Screening Level | Ecological Indicator Soil Concentration (EISC) | | | EISC Source ¹ | | | Chemical |
|-----------|--------------------------|------|------|------|------------------------------|-----------------------------|--------------------|---|------------|----------|-----------------------------------|------------------|------------------|----------|
| | | | | | | | | Plants | Soil Biota | Wildlife | | | | |
| Pyrene | 84 | 1/64 | 1.6% | 9.8 | lognormal (log SD = 2.4) | 97.5% KM (Chebyshev) UCL | 12 | 18 | 18 | 12 | assumed soil biota | EPA 2007b | Assumed BaP | HPAH |
| Aluminum | 20,700 | 0/14 | 0.0% | NC | NC | NA | 37,200 | 37,200 | 37,200 | 37,200 | Background (Ecology 1994) | | | Metal |
| Arsenic | 47.1 | 2/31 | 6.5% | 13.3 | Undefined (log SD = 0.53) | 95% KM Chebyshev UCL | 20 | 20 | 60 | 132 | Table 740-1 footnote | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Barium | 125 | 0/14 | 0.0% | NC | NC | NA | 330 | 500 | 330 | 2,000 | MTCA Table 749-3 | EPA 2005a | EPA 2005a | Metal |
| Chromium | 48.2 | 0/14 | 0.0% | NC | NC | NA | 48.2 | 48.2 | 48.2 | 67 | Background (Ecology 1994) | | MTCA Table 749-3 | Metal |
| Cobalt | 12.5 | 0/14 | 0.0% | NC | NC | NA | 20 | 20 | 20 | 120 | MTCA Table 749-3 | assumed plant SL | EPA 2005b | Metal |
| Copper | 35.9 | 0/14 | 0.0% | NC | NC | NA | 80 | 100 | 80 | 217 | MTCA Table 749-3 | EPA 2006 | MTCA Table 749-3 | Metal |
| Iron | 20,800 | 0/14 | 0.0% | NC | NC | NA | 42,100 | 42,100 | 42,100 | 42,100 | Background (Ecology 1994) | | | Metal |
| Lead | 41.3 | 0/14 | 0.0% | NC | NC | NA | 118 | 120 | 1,700 | 118 | EPA 2005c | EPA 2005c | MTCA Table 749-3 | Metal |
| Manganese | 350 | 0/14 | 0.0% | NC | NC | NA | 450 | 1,100 | 450 | 4,000 | MTCA Table 749-3 | EPA 2007a | EPA 2007a | Metal |
| Mercury | 0.15 | 1/14 | 1.6% | 0.09 | Gamma | 95% KM Bootstrap t UCL | 0.1 | 0.3 | 0.1 | 5.5 | MTCA Table 749-3 | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Nickel | 50.3 | 0/14 | 0.0% | NC | NC | NA | 70 | 70 | 200 | 980 | Background (Smith et al. 2013) | MTCA Table 749-3 | MTCA Table 749-3 | Metal |
| Selenium | 3.2 | 1/14 | 7.1% | 1.8 | Undefined (log SD = 0.71) | 95% KM (Chebyshev) UCL | 0.63 | 1 | 70 | 0.63 | MTCA Table 749-3 | MTCA Table 749-3 | EPA 2007d | Metal |
| Vanadium | 75.8 | 0/14 | 0.0% | NC | NC | NA | 178 | 178 | 178 | 178 | Background (Smith et al. 2013) | | | Metal |
| Zinc | 55.1 | 0/14 | 0.0% | NC | NC | NA | 160 | 160 | 200 | 360 | EPA 2007c | MTCA Table 749-3 | MTCA Table 749-3 | Metal |

NOTES:

Chemicals in **bold** and highlighted **yellow** are identified as contaminants of concern (COCs).

¹For a list of ecological indicator soil concentration (EISC) sources cited, see Attachment A.

background = natural background concentration reported in Ecology (1994) or Smith et al. (2013)

BaP = benzo(a)pyrene

DRO+ORO = sum of total petroleum hydrocarbons as diesel-range organics and as oil-range organics

EF = exceedance frequency (number of exceedances/number of samples)

EPA = U.S. Environmental Protection Agency

HPAH = high molecular weight polycyclic aromatic hydrocarbons (PAHs) including all PAHs with four or more benzene rings

KM = Kaplan Meier

LPAH = Low molecular weight PAHs including all PAHs with three or fewer benzene rings

log SD = standard deviation in log scale

mg/kg dw = milligrams per kilogram dry weight

MTCA = Washington State Model Toxics Control Act Cleanup Regulation (MTCA)

NA = not applicable

NC = not calculated

SL = screening level (lowest EISC)

TPH = total petroleum hydrocarbons

UCL = 95% upper confidence limit on the mean

VOC = volatile organic compound

Table 2
Natural Background Soil Concentrations of Nickel and Vanadium - Western Washington
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical¹ | Number of Samples | Concentration Range (milligrams per kilogram) | Distribution | 90th Percentile Concentration |
|-----------------------------|--------------------------|--|---------------------|---|
| Nickel | 42 | 10-192 | Lognormal | 70 |
| Vanadium | 42 | 43-292 | Lognormal | 178 |

NOTES:

¹Data Source: Smith, D.B., Cannon, W.F., Woodruff, L.G., Solano, Federico, Kilburn, J.E., and Fey, D.L., 2013, Geochemical and mineralogical data for soils of the conterminous United States: U.S. Geological Survey Data Series 801, 19 p., <https://pubs.usgs.gov/ds/801/>.

Table 3
Ecological Chemicals of Concern for Soil
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical | Ecological Indicator Soil Concentration (mg/kg) | | | Background Samples | | Site Samples | | |
|----------|---|------------|----------|-------------------------------|---|--------------------------------------|-------------|---|
| | Plants | Soil Biota | Wildlife | Range, Mean (mg/kg) | Exceedance Frequency (number of samples ¹ , percent) | Range, Mean (mg/kg) | EPC (mg/kg) | Exceedance Frequency (number of samples ¹ , percent) |
| DRO+ORO | 1,600 | 260 | 6,000 | <98 - <110, 52 ² | 0/4, 0% | <89- 460 , 221 ³ | 210 | 8/30, 27% |
| Selenium | 1 | 70 | 0.63 | <2.4 - <3.0, 1.4 ² | 0/3, 0% | <0.2- 3.2 , 0.84 ³ | 1.8 | 1/14, 7% |

NOTES:

Sample results or exposure point concentrations in **bold** exceed EISCs.

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

¹Number of detected samples exceeding the screening lowest EISC level divided by the number of samples analyzed for chemical.

²Non-detects included at half the detection limit.

³Detected data only

DRO+ORO = sum of total petroleum hydrocarbons as diesel-range organics and as oil-range organics

EISC = Ecological Indicator Soil Concentration

EPC = Exposure Point Concentration

mg/kg = milligrams per kilogram

MTCA = Model Toxics Control Act Cleanup Regulation (MTCA)

Table 4
Groundwater Chemicals of Ecologic Concern Screening Assessment
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical | Downgradient Wells Maximum | Site Maximum | SLV | SLV Source |
|---------------------|-------------------------------|--------------|--------------------|---------------------------------|
| | (micrograms per liter) | | | |
| Xylenes | NE | 0.91 | 27 | EPA 2003 |
| Acenaphthene | NE | 2.4 | 5.8 | Environment Canada 2021 |
| Anthracene | <0.097 | 0.17 | 0.012 | Environment Canada 2021 |
| Fluoranthene | <0.097 | 0.19 | 0.04 | Environment Canada 2021 |
| Fluorene | <0.097 | 2.1 | 3 | Environment Canada 2021 |
| Naphthalene | <0.097 | 5.4 | 1.1 | Environment Canada 2021 |
| Naphthalene (total) | <0.291 | 8.4 | 1.1 | Environment Canada 2021 |
| Phenanthrene | <0.097 | 2.0 | 0.4 | Environment Canada 2021 |
| Pyrene | <0.097 | 0.15 | 0.025 | Environment Canada 2021 |
| TPH (DRO+ORO) | NE | 530 | 3,000 ¹ | Hobbs et al. 2020 |
| Aluminum | NE | <110 | 87 | Clean Water Act, U.S. Code §304 |
| Arsenic | NE | 9.5 | 190 | 173-201A WAC |
| Iron | 5,700 | 7,100 | 1,000 | Clean Water Act, U.S. Code §304 |
| Manganese | 200 | 530 | 120 | Suter and Tsao 1996 |

NOTES:

Results in **bold** denote sample results exceeding SLVs.

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

¹The weathered diesel SLV was used rather than the fresh diesel SLV because silica gel cleanup resulted in a substantially lower NWTPH-Dx concentration demonstrating that polar metabolites constitute a significant portion of the Dx in site samples (Ecology 2020).

DRO+ORO = sum of total petroleum hydrocarbons as diesel-range organics and as oil-range organics
NE = Not evaluated; groundwater concentration in downgradient wells not evaluated because Site maximum groundwater concentration is less than SLV.

SLV = Screening Level Value, concentration protective of surface water aquatic organisms (freshwater chronic criteria)

TPH = total petroleum hydrocarbons

Table 5
Soil Chemicals of Ecologic Concern and Representative Receptors
Thompson Field Site
Redmond, Washington
Farallon PN: 650-031

| Chemical | Vascular Plants | Soil Biota (Earthworm) | Wildlife | | |
|----------|--------------------|---------------------------|----------|------|----------------|
| | | | Shrew | Vole | American Robin |
| DRO+ORO | | X | | | |
| Selenium | X | | X | X | X |

NOTES:

DRO+ORO = sum of total petroleum hydrocarbons as diesel-range organics and as oil-range organics

X = indicates chemical is of ecological concern to specified receptor

**ATTACHMENT A
BIBLIOGRAPHY**

SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Thompson Field Site

A Portion of King County Parcel No. 0825069104

Redmond, Washington

Farallon PN: 650-031



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ATTACHMENT B
TERRESTRIAL ECOLOGICAL EVALUATION FORM

SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Thompson Field Site
A Portion of King County Parcel No. 0825069104
Redmond, Washington

Farallon PN: 650-031



Voluntary Cleanup Program

Washington State Department of Ecology Toxics Cleanup Program

TERRESTRIAL ECOLOGICAL EVALUATION FORM

Under the Model Toxics Control Act (MTCA), a terrestrial ecological evaluation is necessary if hazardous substances are released into the soils at a Site. In the event of such a release, you must take one of the following three actions as part of your investigation and cleanup of the Site:

1. Document an exclusion from further evaluation using the criteria in WAC 173-340-7491.
2. Conduct a simplified evaluation as set forth in WAC 173-340-7492.
3. Conduct a site-specific evaluation as set forth in WAC 173-340-7493.

When requesting a written opinion under the Voluntary Cleanup Program (VCP), you must complete this form and submit it to the Department of Ecology (Ecology). The form documents the type and results of your evaluation.

Completion of this form is not sufficient to document your evaluation. You still need to document your analysis and the basis for your conclusion in your cleanup plan or report.

If you have questions about how to conduct a terrestrial ecological evaluation, please contact the Ecology site manager assigned to your Site. For additional guidance, please refer to <https://ecology.wa.gov/Regulations-Permits/Guidance-technical-assistance/Terrestrial-ecological-evaluation>.

Step 1: IDENTIFY HAZARDOUS WASTE SITE

Please identify below the hazardous waste site for which you are documenting an evaluation.

Facility/Site Name: Thompson Field Gunshy Manor

Facility/Site Address:

Facility/Site No: 8042

VCP Project No.:

Step 2: IDENTIFY EVALUATOR

Please identify below the person who conducted the evaluation and their contact information.

Name: Matt Luxon

Title: Ecotoxicologist

Organization: Ecozoic Environmental Consulting LLC

Mailing address: 2629 Iron Street

City: Bellingham

State: WA

Zip code: 98225

Phone: 360-296-6712

Fax:

E-mail: Matt@EcozoicLLC.com

Step 3: DOCUMENT EVALUATION TYPE AND RESULTS

A. Exclusion from further evaluation.

1. Does the Site qualify for an exclusion from further evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 2**.*
- ☒ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3B** of this form.*

2. What is the basis for the exclusion? Check all that apply. Then skip to **Step 4** of this form.

Point of Compliance: WAC 173-340-7491(1)(a)

- ☐ All soil contamination is, or will be,* at least 15 feet below the surface.
- ☐ All soil contamination is, or will be,* at least 6 feet below the surface (or alternative depth if approved by Ecology), and institutional controls are used to manage remaining contamination.

Barriers to Exposure: WAC 173-340-7491(1)(b)

- ☐ All contaminated soil, is or will be,* covered by physical barriers (such as buildings or paved roads) that prevent exposure to plants and wildlife, and institutional controls are used to manage remaining contamination.

Undeveloped Land: WAC 173-340-7491(1)(c)

- ☐ There is less than 0.25 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site and any of the following chemicals is present: chlorinated dioxins or furans, PCB mixtures, DDT, DDE, DDD, aldrin, chlordane, dieldrin, endosulfan, endrin, heptachlor, heptachlor epoxide, benzene hexachloride, toxaphene, hexachlorobenzene, pentachlorophenol, or pentachlorobenzene.
- ☐ For sites not containing any of the chemicals mentioned above, there is less than 1.5 acres of contiguous[#] undeveloped[±] land on or within 500 feet of any area of the Site.

Background Concentrations: WAC 173-340-7491(1)(d)

- ☐ Concentrations of hazardous substances in soil do not exceed natural background levels as described in WAC 173-340-200 and 173-340-709.

* An exclusion based on future land use must have a completion date for future development that is acceptable to Ecology.

± "Undeveloped land" is land that is not covered by building, roads, paved areas, or other barriers that would prevent wildlife from feeding on plants, earthworms, insects, or other food in or on the soil.

"Contiguous" undeveloped land is an area of undeveloped land that is not divided into smaller areas of highways, extensive paving, or similar structures that are likely to reduce the potential use of the overall area by wildlife.

B. Simplified evaluation.

1. Does the Site qualify for a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 2** below.*
- ☒ No or Unknown *If you answered "NO" or "UNKNOWN," then skip to **Step 3C** of this form.*

2. Did you conduct a simplified evaluation?

- ☐ Yes *If you answered "YES," then answer **Question 3** below.*
- ☒ No *If you answered "NO," then skip to **Step 3C** of this form.*

3. Was further evaluation necessary?

- ☐ Yes *If you answered "YES," then answer **Question 4** below.*
- ☐ No *If you answered "NO," then answer **Question 5** below.*

4. If further evaluation was necessary, what did you do?

- ☐ Used the concentrations listed in Table 749-2 as cleanup levels. *If so, then skip to **Step 4** of this form.*
- ☐ Conducted a site-specific evaluation. *If so, then skip to **Step 3C** of this form.*

5. If no further evaluation was necessary, what was the reason? Check all that apply. Then skip to **Step 4** of this form.

Exposure Analysis: WAC 173-340-7492(2)(a)

- ☐ Area of soil contamination at the Site is not more than 350 square feet.
- ☐ Current or planned land use makes wildlife exposure unlikely. Used Table 749-1.

Pathway Analysis: WAC 173-340-7492(2)(b)

- ☐ No potential exposure pathways from soil contamination to ecological receptors.

Contaminant Analysis: WAC 173-340-7492(2)(c)

- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations that exceed the values listed in Table 749-2.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations that exceed the values listed in Table 749-2, and institutional controls are used to manage remaining contamination.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 15 feet at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays.
- ☐ No contaminant listed in Table 749-2 is, or will be, present in the upper 6 feet (or alternative depth if approved by Ecology) at concentrations likely to be toxic or have the potential to bioaccumulate as determined using Ecology-approved bioassays, and institutional controls are used to manage remaining contamination.

C. Site-specific evaluation. A site-specific evaluation process consists of two parts: (1) formulating the problem, and (2) selecting the methods for addressing the identified problem. Both steps require consultation with and approval by Ecology. See WAC 173-340-7493(1)(c).

1. Was there a problem? See WAC 173-340-7493(2).

- ☐ Yes *If you answered “YES,” then answer **Question 2** below.*
- ☒ No *If you answered “NO,” then identify the reason here and then skip to **Question 5** below:*
- ☒ No issues were identified during the problem formulation step.
- ☐ While issues were identified, those issues were addressed by the cleanup actions for protecting human health.

2. What did you do to resolve the problem? See WAC 173-340-7493(3).

- ☐ Used the concentrations listed in Table 749-3 as cleanup levels. *If so, then skip to **Question 5** below.*
- ☐ Used one or more of the methods listed in WAC 173-340-7493(3) to evaluate and address the identified problem. *If so, then answer **Questions 3 and 4** below.*

3. If you conducted further site-specific evaluations, what methods did you use?
Check all that apply. See WAC 173-340-7493(3).

- ☐ Literature surveys.
- ☐ Soil bioassays.
- ☐ Wildlife exposure model.
- ☐ Biomarkers.
- ☐ Site-specific field studies.
- ☐ Weight of evidence.
- ☐ Other methods approved by Ecology. If so, please specify:

4. What was the result of those evaluations?

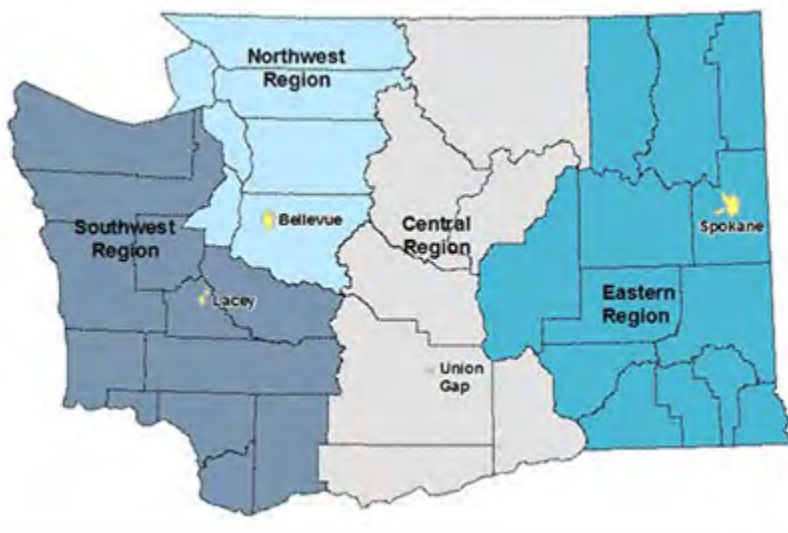
- ☐ Confirmed there was no problem.
- ☐ Confirmed there was a problem and established site-specific cleanup levels.

5. Have you already obtained Ecology’s approval of both your problem formulation and problem resolution steps?

- ☐ Yes If so, please identify the Ecology staff who approved those steps:
- ☒ No

Step 4: SUBMITTAL

Please mail your completed form to the Ecology site manager assigned to your Site. If a site manager has not yet been assigned, please mail your completed form to the Ecology regional office for the County in which your Site is located.



| | |
|--|--|
| Northwest Region: Attn: VCP Coordinator 3190 160 th Ave. SE Bellevue, WA 98008-5452 | Central Region: Attn: VCP Coordinator 1250 West Alder St. Union Gap, WA 98903-0009 |
| Southwest Region: Attn: VCP Coordinator P.O. Box 47775 Olympia, WA 98504-7775 | Eastern Region: Attn: VCP Coordinator N. 4601 Monroe Spokane WA 99205-1295 |

If you need this publication in an alternate format, please call the Toxics Cleanup Program at 360-407-7170. People with hearing loss can call 711 for Washington Relay Service. People with a speech disability can call 877-833-6341.

ATTACHMENT C
WASHINGTON DEPARTMENT OF FISH AND WILDLIFE PRIORITY
HABITATS AND SPECIES REPORTS

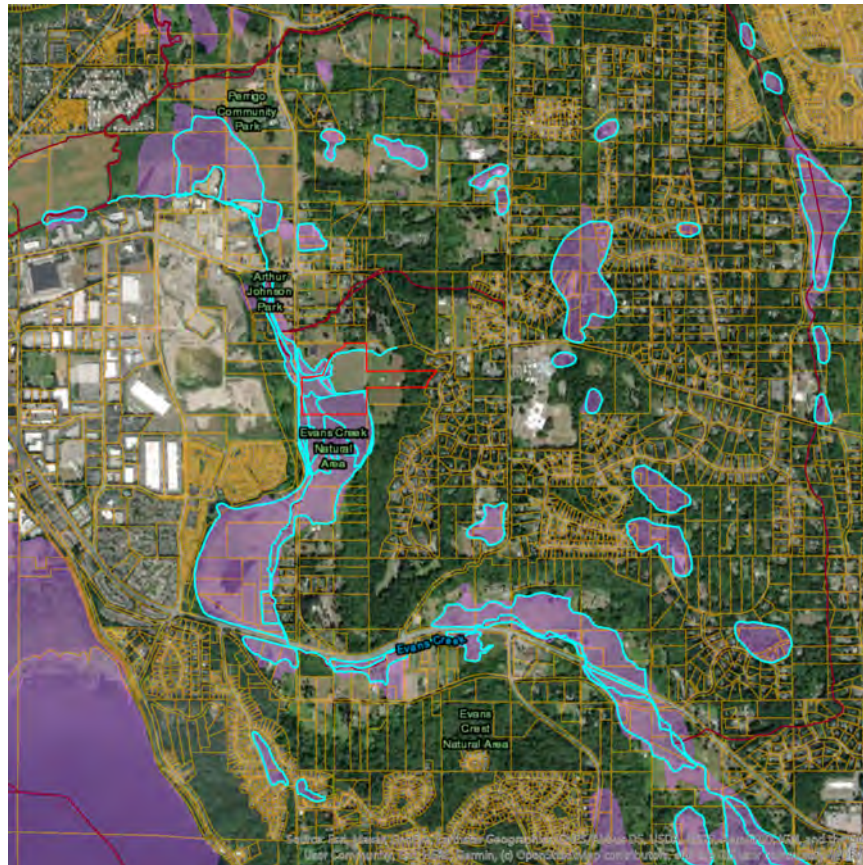
SITE-SPECIFIC TERRESTRIAL ECOLOGICAL EVALUATION

Thompson Field Site
A Portion of King County Parcel No. 0825069104
Redmond, Washington

Farallon PN: 650-031



Priority Habitats and Species on the Web



Report Date: 11/09/2020, Parcel ID: [0825069104](#)

PHS Species/Habitats Overview:

| Occurrence Name | Federal Status | State Status | Generalized Location |
|-----------------------------------|----------------|--------------|----------------------|
| Coho | N/A | N/A | No |
| Chinook | Threatened | N/A | No |
| Coho | Candidate | N/A | No |
| Resident Coastal Cutthroat | N/A | N/A | No |
| Wetlands | N/A | N/A | No |
| Freshwater Forested/Shrub Wetland | N/A | N/A | No |
| Freshwater Emergent Wetland | N/A | N/A | No |

PHS Species/Habitats Details:

| Coho | |
|--------------------|--|
| Scientific Name | <i>Oncorhynchus kisutch</i> |
| Priority Area | Occurrence/Migration |
| Accuracy | NA |
| Notes | LLID: 1220776476697, Fish Name: Coho Salmon, Run Time: Unknown or not Applicable, Life History: Anadromous |
| Source Record | 28534 |
| Source Dataset | SWIFD |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| More Info | http://wdfw.wa.gov/wlm/diversity/soc/soc.htm |
| Geometry Type | Lines |

| Chinook | |
|--------------------|---|
| Scientific Name | <i>Oncorhynchus tshawytscha</i> |
| Priority Area | Occurrence |
| Site Name | Evans Creek |
| Accuracy | NA |
| Notes | LLID: 1220921476788, Stock Name: Sammamish Chinook, Run: Sum/Fall, Status: Healthy |
| Source Record | 1128 |
| Source Dataset | SASI |
| Source Name | Not Given |
| Source Entity | WDFW Fish Program |
| Federal Status | Threatened |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| More Info | http://wdfw.wa.gov/wlm/diversity/soc/soc.htm |
| Geometry Type | Lines |

| Coho | |
|--------------------|--|
| Scientific Name | <i>Oncorhynchus kisutch</i> |
| Priority Area | Occurrence |
| Site Name | Evans Creek |
| Accuracy | NA |
| Notes | LLID: 1220921476788, Stock Name: Lake Washington/Sammamish Tribs Coho, Run: Unspecified, Status: Depressed |
| Source Record | 3120 |
| Source Dataset | SASI |
| Source Name | Not Given |
| Source Entity | WDFW Fish Program |
| Federal Status | Candidate |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| More Info | http://wdfw.wa.gov/wlm/diversity/soc/soc.htm |
| Geometry Type | Lines |

| Resident Coastal Cutthroat | |
|----------------------------|---|
| Scientific Name | <i>Oncorhynchus clarki</i> |
| Priority Area | Occurrence/Migration |
| Accuracy | NA |
| Notes | LLID: 1220776476697, Fish Name: Cutthroat Trout, Run Time: Unknown or not Applicable, Life History: Unknown |
| Source Record | 28532 |
| Source Dataset | SWIFD |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| More Info | http://wdfw.wa.gov/wlm/diversity/soc/soc.htm |
| Geometry Type | Lines |

| Wetlands | |
|---------------------------|---|
| Priority Area | Aquatic Habitat |
| Site Name | EVANS CREEK WETLANDS |
| Accuracy | 1/4 mile (Quarter Section) |
| Notes | A GROUP OF WETLANDS ASSOCIATED WITH THE EVANS CREEK DRAINAGE SYSTEM. THOSE ALONG THE DOWNSTREAM REACHES ARE COVERED LARGELY BY WILLOW/SPIRAEA. THOSE FURTHER UPSTREAM ALSO HAVE A MIXED FOREST COMPONENT. SEVERAL ALSO HAVE OPEN WATER. |
| Source Record | 902526 |
| Source Dataset | PHSREGION |
| Source Name | MULLER, TED |
| Source Entity | WA Dept. of Fish and Wildlife |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| ManagementRecommendations | http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html |
| Geometry Type | Polygons |

| Freshwater Forested/Shrub Wetland | |
|-----------------------------------|---|
| Priority Area | Aquatic Habitat |
| Site Name | N/A |
| Accuracy | NA |
| Notes | Wetland System: PALUSTRINE - NWI Code: PFO/SSC |
| Source Dataset | NWIWetlands |
| Source Name | Not Given |
| Source Entity | US Fish and Wildlife Service |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| ManagementRecommendations | http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html |
| Geometry Type | Polygons |

| Freshwater Forested/Shrub Wetland | |
|-----------------------------------|---|
| Priority Area | Aquatic Habitat |
| Site Name | N/A |
| Accuracy | NA |
| Notes | Wetland System: PALUSTRINE - NWI Code: PFOA |
| Source Dataset | NWIWetlands |
| Source Name | Not Given |
| Source Entity | US Fish and Wildlife Service |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| ManagementRecommendations | http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html |
| Geometry Type | Polygons |

| Freshwater Emergent Wetland | |
|-----------------------------|---|
| Priority Area | Aquatic Habitat |
| Site Name | N/A |
| Accuracy | NA |
| Notes | Wetland System: PALUSTRINE - NWI Code: PEMA |
| Source Dataset | NWIIWetlands |
| Source Name | Not Given |
| Source Entity | US Fish and Wildlife Service |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| ManagementRecommendations | http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html |
| Geometry Type | Polygons |

| Freshwater Forested/Shrub Wetland | |
|-----------------------------------|---|
| Priority Area | Aquatic Habitat |
| Site Name | N/A |
| Accuracy | NA |
| Notes | Wetland System: PALUSTRINE - NWI Code: PSSCd |
| Source Dataset | NWIIWetlands |
| Source Name | Not Given |
| Source Entity | US Fish and Wildlife Service |
| Federal Status | N/A |
| State Status | N/A |
| PHS Listing Status | PHS Listed Occurrence |
| Sensitive | N |
| SGCN | N |
| Display Resolution | AS MAPPED |
| ManagementRecommendations | http://www.ecy.wa.gov/programs/sea/wetlands/bas/index.html |
| Geometry Type | Polygons |

DISCLAIMER: This report includes information that the Washington Department of Fish and Wildlife (WDFW) maintains in a central computer database. It is not an attempt to provide you with an official agency response as to the impacts of your project on fish and wildlife. This information only documents the location of fish and wildlife resources to the best of our knowledge. It is not a complete inventory and it is important to note that fish and wildlife resources may occur in areas not currently known to WDFW biologists, or in areas for which comprehensive surveys have not been conducted. Site specific surveys are frequently necessary to rule out the presence of priority resources. Locations of fish and wildlife resources are subject to variation caused by disturbance, changes in season and weather, and other factors. WDFW does not recommend using reports more than six months old.