

# **Limited Scope Phase II Environmental Site Assessment Oregon Museum of Science and Industry – Crescent Parcel**

Portland, Oregon

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## EXECUTIVE SUMMARY

GRI, as a contractor to the Oregon Museum of Science and Industry (OMSI), conducted a Limited Scope Phase II Environmental Site Assessment (ESA) at the Crescent Parcel, which consists of one approximately 1.82-acre parcel, identified as tax lot number 1S1E03D-00101 in Portland, Multnomah County, Oregon, in conformance with ASTM International (ASTM) E1903-19.

A Phase I ESA completed previously by GRI described environmental and regulatory issues at and near the site. Based on the results of the Phase I ESA and upon discussion with OMSI personnel, a Limited Scope Phase II ESA was initiated to evaluate the potential for soil impacts from past industrial land use activities at the subject property. The following summarizes our findings and conclusions from the environmental sampling program conducted at the site. We recommend you read this report in its entirety.

- GRI collected a total of 17 soil samples from six explorations, three of which used combined hand auger-machine-drilled (direct push) exploratory techniques and three of which used machine-drilled (direct push) techniques. Soil samples were submitted to Apex Laboratory in Tigard, Oregon, for chemical analysis.
- Laboratory analytical testing of soil samples indicates heavy metals exceeding Oregon Department of Environmental Quality (DEQ) clean fill screening levels (CFSLs) were detected in explorations DP-1, DP-3/HA-1, DP-5/HA-2, and DP-6/HA-3. One sample (DP-3-10 from exploration DP-3/HA-1) showed lead concentrations of 13,500 milligrams per kilogram (mg/kg), above the lead CFSL (28 mg/kg) and the established risk-based concentration (RBC) for the Excavation Worker—soil ingestion, dermal contact, and inhalation exposure pathway scenario (800 mg/kg). Based on supplemental toxicity characteristic leaching procedure (TCLP) testing, this material appears to exhibit characteristics of hazardous waste.
- Laboratory analytical testing results of samples from explorations DP-5/HA-2 and DP-6/HA-3 indicate analyte concentrations exceeded CFSLs for the polycyclic aromatic hydrocarbon (PAH) benzo(a)pyrene. The CFSL for polychlorinated biphenyls (PCBs) was exceeded in one sample from exploration DP-6/HA-3.
- All other analytes were present below regulatory thresholds or were not present above laboratory reporting limits.
- Staining, petroleum odor, or both were observed in three explorations (DP-1, DP-4, and DP-5/HA-2). According to the DEQ, “if the material appears chemically stained or has a chemical smell, it is not clean fill.” In addition, material handled and disposed of as clean fill “does not include putrescible wastes,

construction and demolition wastes, or industrial solid wastes.”

- Groundwater was not encountered during site exploration activities.
- Based on the results of this ESA, samples from the general location of exploration DP-2 generally appear to meet clean fill standards.
- Soil in the vicinity of explorations DP-1, DP-4, DP-5/HA-2, and DP-6/HA-3 does not appear to meet the conditions required for unrestricted use, and any excavated material in this area should be handled as non-clean fill and disposed of as solid waste at an approved landfill.
- Soil in the vicinity of exploration DP-3/HA-1 exceeded the Excavation Worker RBC for lead and appears to have characteristics of hazardous waste. Special handling and disposal requirements may apply to material generated in this area, depending on site redevelopment goals. Soil excavated from this area will require disposal as hazardous waste at a chemical waste landfill in Arlington, Oregon.
- Depending on future site redevelopment goals, additional soil and sediment sampling is recommended to more adequately define the lateral and vertical extents of possible residual contamination at the site to identify regulatory requirements, evaluate soil handling and disposal options, and determine appropriate safeguards for human health and safety. DEQ coordination may be required for redevelopment activities based on the Subject Property regulatory history and nearby active regulatory sites.
- Groundwater at the site, which is a former industrial facility with numerous industrial and regulatory sites nearby, is likely not suitable for beneficial use. Groundwater sampling and analysis is recommended as part of future site redevelopment activities to inform handling and disposal options, depending on future site dewatering needs during construction.
- Unanticipated contaminated soil pockets could be encountered during project site redevelopment. Based on future site redevelopment goals, a Contaminated Media Management Plan (CMMP) may be warranted to establish procedures that would be followed to manage contaminated soil identified during this assessment and in the event that unanticipated contaminated soil, sediment, and/or groundwater are discovered during construction. GRI can prepare a proposal to develop a CMMP upon request.

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## 1 INTRODUCTION

As requested, GRI conducted a Limited Scope Phase II Environmental Site Assessment (ESA) at the Crescent Parcel, which consists of one approximately 1.82-acre parcel, identified as tax lot number 1S1E03D-00101 in Portland, Multnomah County, Oregon (Subject Property). The location of the Subject Property is shown on the Vicinity Map, Figure 1. The Crescent Parcel is further identified as Oregon Department of Environmental Quality (DEQ) Environmental Cleanup Site Information (ECSI) Site 5547 and is a U.S. Environmental Protection Agency (EPA)-listed Brownfield site.

A Phase I ESA completed by GRI detailed environmental and regulatory issues at and near the Subject Property, including identification of the historical use of the Subject Property as adjacent to the Portland General Electric (PGE) Station L for most of the 20th century (GRI, 2024). Following site assessment, characterization, and mitigation efforts in the early 2010s, the Subject Property was conferred regulatory administrative closure (“No Further Action Required” [NFA]) status in October 2012. This was based on anticipated future site use, generally low levels of residual soil and groundwater contamination, and protective engineering controls such as riprap armoring of impacted sediments, which limits the potential for future ecological exposure in the Willamette River. Supplemental sampling and testing at the Crescent Site indicated elevated levels of lead in an area historically used for “lead-covered cable storage” (GRI, 2024).

Past industrial land use, regulatory history, documented history of contamination, and the potential for offsite migration of contamination to the Subject Property were identified as recognized environmental conditions (RECs) to the property in the Phase I ESA report. Based on the preliminary Phase I ESA results, GRI’s experience in the area, and discussions with Oregon Museum of Science and Industry (OMSI) personnel, a Limited Scope Phase II ESA was initiated to evaluate the potential for near-surface soil impacts from past industrial land use activities at and near the subject property. The following summarizes our findings and conclusions from the environmental sampling program conducted at the Subject Property.

### 1.1 Purpose of Assessment

Based on discussions with OMSI personnel about future potential redevelopment options, a Limited Scope Phase II ESA was recommended to evaluate the potential implications of past industrial land use activities at the subject property. Under certain conditions, chemicals and fuels can persist in soil for many years and constitute an exposure hazard, depending on the future land use of the subject property. Soils that contain elevated levels of heavy metals, industrial chemicals such as polychlorinated biphenyls (PCBs), and residual fuel and petroleum byproducts exceeding DEQ Risk-Based Concentrations (RBCs) may need to be capped or removed to prevent human exposure. Impacted soils that

exceed DEQ clean fill screening levels (CFSLs) may require special handling and potential off-site disposal upon site redevelopment. In addition, worker protection measures will be required for handling soil material that exceeds RBC values for the Excavation Worker—soil ingestion, dermal contact, and inhalation exposure pathway scenario. Additional RBC scenario comparison(s) may be warranted based on planned redevelopment details.

The purpose of this Limited Scope Phase II ESA is to assess potential residual impacts at the Subject Property from past industrial practices, provide an initial evaluation of limited areas of near-surface soil for handling and disposal purposes by comparing soil sample laboratory analytical values to DEQ CFSLs, and evaluate limited areas of the Subject Property soil with respect to applicable DEQ RBCs for potential future site users. This Phase II ESA report includes our findings, conclusions, and recommendations for potential additional site assessment and characterization work.

This Phase II ESA is limited in scope and is not intended to provide comprehensive site characterization or detailed mitigation options.

## **1.2 Terms and Conditions**

This Limited Scope Phase II ESA was conducted in general accordance with ASTM International (ASTM) E1903-19 (*Standard Practice for Environmental Site Assessments: Phase II Environmental Site Assessment Process*) to evaluate known releases or likely release areas and/or assess the presence or likely presence of hazardous substances in selected areas of the project.

This report is based on our preliminary understanding of site environmental conditions, our experience with similar projects, and a review of the information compiled during the Phase I ESA.

## **1.3 Limitations**

This report documents work that was performed in accordance with the generally accepted professional standards at the time and location at which the services were provided. The scope of work was limited to the specific project, location, and activities described within this report. In the performance of an assessment of this type, specific information is obtained at specific locations at specific times. Judgments leading to conclusions are generally made with an incomplete knowledge of the subsurface and historical conditions applicable to the project area. A more extensive assessment, including additional historical review, site exploration, soil and groundwater sampling, and chemical analyses, may be used to supplement the information presented by this assessment. Our assessment of the property may also change as new data become available during additional site exploration or development.

Since site activities and regulations beyond our control could change at any time after the completion of this report, our observations, findings, and opinions can be considered valid only as of the date of this report. This report may be used only by the project team (hereinafter called the “User”) within a reasonable time from its issuance. Land use, on- and off-site conditions, and other factors may change over time, and additional work may be required with the passage of time.

Any party other than the User who wishes to use this report shall notify GRI in writing. Based on the intended use of the report, GRI may require additional work to be performed and an updated report to be issued. Non-compliance with any of these requirements will release GRI from any liability resulting from the use of this report by any unauthorized party.

By virtue of contract conditions, GRI performed certain services for this project in general accordance with ASTM E1903-19. Because such standards are, of necessity, based on a wide array of significant assumptions, GRI exercised professional judgment to accommodate the unique site, project, and client involved. Any questions in this respect should be addressed to GRI.

The findings and conclusions presented in this report are based on our interpretation of the information obtained through the assessment procedures described in this report. No other warranty or representation, either expressed or implied, is included or intended in this report.

## **2 SITE DESCRIPTION AND PHYSICAL SETTING**

### **2.1 Site Description**

The Subject Property includes approximately 1.82 acres and is located in Township 1S, Range 1E, Section 3, Portland, Multnomah County, Oregon. The Subject Property is currently structurally developed with one rectangular building approximately 5,000 square feet (ft<sup>2</sup>) (“Warehouse Building”), one inoperative metal communications tower (“Tower”), and one approximately 700 ft<sup>2</sup> building under the Tower (“Tower Building”). One approximately 2,000 ft<sup>2</sup> building (“Radio Shop [Former]”) south of the Tower/Tower Building area was demolished and removed in 2023. The Site Plan, Figure 2, depicts general site features.

The majority of the Subject Property is paved or surfaced with crushed rock/gravel and is generally level. Drop inlets collect and divert stormwater flow to discharge pipes that drain to the nearby Willamette River. The western edge of the Subject Property drops steeply to the Willamette River and is heavily vegetated with grass, blackberry vines, shrubs, and trees. The paved, generally north-south-oriented Eastbank Esplanade multi-use

trail/pathway traverses the central-to-western portion of the Subject Property, west of the Subject Property structures, and east of the vegetated riverbank area.

The subject property is currently zoned Central Employment (EX). The surrounding neighborhood is primarily industrial and commercial.

## **2.2 Physical Setting and Site Geology**

According to a review of the U.S. Geological Survey (2020) topographic map of the Portland Quadrangle, Oregon, and Google Earth, the Subject Property slopes west toward the Willamette River and ranges in elevation from about 38 feet at the edge of the Eastbank Esplanade to about 10 feet at the Willamette River (North American Vertical Datum of 1988). The Willamette River is along the western border of the Subject Property and represents the largest surface water body in the vicinity.

Published geologic mapping indicates the Subject Property is mapped as artificial fill, with adjacent areas mapped as fine- to coarse-grained flood deposits (clay, silt, sand, and gravel) associated with the Missoula flood glacial lake outburst flood events of the late Pleistocene Epoch (Wells et al., 2020). Numerous well logs associated with the Subject Property and adjacent parcels were identified in the Oregon Water Resources Department online well log database. GRI's previous experience in the vicinity of the project site aligns with this understanding of the general geologic conditions.

The Willamette River, the largest surface water body in the area, is located along the western border of the Subject Property. Groundwater flow is generally assumed to be west, toward the Willamette River. Based on available nearby well logs, we anticipate the groundwater level is generally about 10 feet to 30 feet below the existing ground surface throughout the year. However, shallow and perched groundwater can approach the ground surface during periods of heavy or prolonged rainfall. Local subsurface geologic and manmade features can affect groundwater flow. Therefore, this groundwater flow interpretation is only an estimate.

## **2.3 Land Use and Regulatory History**

The following summary points present a condensed synopsis of GRI's understanding of the historical and regulatory history at the subject Property. Additional details are found in GRI's Phase I ESA for the Crescent Parcel (GRI, 2024):

- The Subject Property was initially developed by at least the early 1900s as a boatbuilding yard and wharf area of the Portland Electric Power Company. Until the 1980s, the Subject Property supported PGE's Station L. Since the 1990s, the Subject Property has supported OMSI uses. Over time, the western edge of the

parcel was filled, adding upslope land and encroaching into the channel of the Willamette River.

- A 2010 Phase I ESA for the Subject Property identified the potential for impacts to soil and groundwater from past industrial land use practices at the Subject Property, including a “lead-covered cable storage area” along the southwestern riverfront portion.
- The Crescent Parcel was added to the DEQ ECSI database as Site 5547 in the early 2010s.
- In 2011, a Phase II ESA and Source Control Evaluation was conducted; this scope of work included soil and groundwater sampling and testing, as well as decommissioning of a cesspool and septic tank and upgrades to a stormwater drywell at the Subject Property.
- The DEQ made an NFA determination (i.e., administrative closure) in 2012. The NFA determination documented residual soil and groundwater contamination at the Subject Property but found that threats to health and human safety and the environment were limited. Groundwater contamination at the Subject Property was found to likely originate from offsite.
- PBS Engineering and Environmental, Inc. (PBS) conducted hazardous building material sampling (asbestos and lead paint) in 2022 prior to structural demolition of the former Radio Shop. In 2023, PBS conducted limited soil sampling following removal of the building. Lead paint and asbestos-containing materials were identified in building materials. Soil sampling showed elevated concentrations of oil, PCBs, polycyclic aromatic hydrocarbons (PAHs), and metals, including lead, at 2,490 milligrams per kilogram (mg/kg) in sample Building C-SUMP; the DEQ CFSL for lead is 28 mg/kg, and the Excavation Worker RBC is 800 mg/kg.

Based on the industrial land use history, documented past impacts to soil and groundwater, and the results of recent soil sampling activities, OMSI contracted GRI to conduct this Limited Scope Phase II ESA at the Subject Property.

### **3 ENVIRONMENTAL SAMPLING**

As a preliminary effort to evaluate soil at the subject property for residual contamination resulting from past site and nearby industrial activities, six explorations were advanced at the locations shown on Figure 2. Three of the six locations were initially advanced using hand auger techniques to collect shallow soil samples. During a separate mobilization, a direct push drill rig was used to collect deeper soil samples at the initial three locations

and to collect soil samples at three additional locations. Groundwater samples were not collected.

Soil samples were collected from the borings and transported to Apex Laboratories, LLC in Tigard, Oregon, for analysis. Laboratory sample results were subsequently compared to applicable regulatory concentration thresholds, including the DEQ CFSLs and RBCs for the Excavation Worker—soil ingestion, inhalation, and dermal contact exposure pathway scenario.

### **3.1 Sampling Methodology**

Prior to conducting the subsurface explorations, potential exploration locations were marked in the field and assessed for possible conflicts with underground utilities. The Oregon Utility Notification Center was notified prior to drilling. A private utility locating service was also used to further identify site utility locations.

On April 17, 2024, GRI obtained soil samples from three hand-augered borings (HA-1, HA-2, and HA-3) advanced at the locations shown on Figure 2. Upon completion, the borings were backfilled with the cuttings not retained for laboratory analysis.

On June 10, 2024, GRI obtained soil samples from six direct-push probe borings advanced at the locations shown on Figure 2. The direct-push borings were completed using a Track-Mounted Geoprobe 7822DT drill rig supplied and operated by Western States Soil Conservation of Hubbard, Oregon, and supervised and sampled by GRI. In three locations where hand-augered borings had already been collected, a combined exploration naming approach was used. For example, direct push boring DP-3 was advanced in the same location as hand-augered boring HA-1. The final exploration ID was designated "DP-3/HA-1."

An experienced environmental representative from GRI recorded soil descriptions for each exploration. The samples were field scanned for the presence of volatile organic compounds using a portable photo-ionization detector (PID) and screened for the presence of chemical odor, staining, and sheen. Non-disposable equipment was washed and rinsed between sample locations, while fresh disposable equipment was used at each sample location. Significant amounts of surface or subsurface litter were not observed at the sample locations. Subsurface material descriptions and field PID readings are included in Table 1A in Appendix A.

The direct-push sampling apparatus was fitted with hollow acetate sleeves and advanced in 5-foot runs. Upon completion of the run, the sleeve was removed from the apparatus and cut to reveal the material at the specified interval. Samples for chemical testing were subsequently collected from the exposed soil material.

Clean, laboratory-supplied sample containers were filled with soil and sealed with airtight, Teflon-lined caps. Sample containers were labeled, recorded on a chain-of-custody form, placed in a cooler with ice, and later transported to Apex Laboratories, LLC in Tigard, Oregon, for chemical analysis. Summary tables of analytical results are provided in Section 4, below. Laboratory analytical results are included in Appendix A.

The explorations were decommissioned in accordance with Oregon Water Resources Department regulations (Oregon Administrative Rules 690-220-0030) for permanent abandonment. Cuttings, decontamination fluids, and other investigation-derived waste were contained in a 55-gallon steel drum for temporary storage at the Subject Property pending disposal.

### 3.2 Laboratory Analytical Methods

Soil samples were analyzed for Northwest Total Petroleum Hydrocarbons (NWTPH)-diesel and NWTPH-oil; PCBs by EPA Method 8082A; and cadmium, chromium, and lead by EPA Method 6020A. Selected soil samples were subsequently analyzed for NWTPH-Gasoline; benzene, toluene, ethylbenzene, and xylenes (BTEX) using EPA Method 8260D; and PAHs using EPA Method 8270E SIM. The final analytical suite was determined by field indications of residual contamination, initial laboratory results, and budgetary limitations. Table 3.1 presents a summary of the requested soil sample analyses.

**Table 3.1: SUMMARY OF SELECTED SAMPLE ANALYSIS REQUESTED**

| Boring ID | Sample ID     | Depth, feet | NWTPH-Dx | NWTPH-Gx | BTEX | PAHs | PCBs | RCRA Metals | Cd, Cr, Pb |
|-----------|---------------|-------------|----------|----------|------|------|------|-------------|------------|
| DP-1      | DP-1-2        | 1.5-2       | x        |          |      |      | x    |             | x          |
|           | DP-1-10       | 9.5-10      | x        |          |      |      | x    |             | x          |
|           | DP-1-20       | 19.5-20     | x        | x        | x    | x    | x    | x           |            |
| DP-2      | DP-2-2        | 1.5-2       | x        |          |      |      | x    |             | x          |
|           | DP-2-9        | 8.5-9       | x        | x        | x    | x    | x    | x           |            |
|           | DP-2-20       | 19.5-20     | x        |          |      |      | x    |             | x          |
| DP-3/HA-1 | HA-1: 0.5-1.5 | 0.5-1.5     | x        |          |      | x    | x    | x           |            |
|           | DP-3-10       | 9.5-10      | x        |          |      |      | x    |             | x          |
| DP-4      | DP-4-2        | 1.5-2       | x        |          |      |      | x    |             | x          |
|           | DP-4-9        | 8.5-9       | x        |          |      |      | x    |             | x          |
|           | DP-4-20       | 19.5-20     | x        |          |      |      | x    |             | x          |
| DP-5/HA-2 | HA-2: 0.5-1.5 | 0.5-1.5     | x        | x        | x    | x    | x    | x           |            |
|           | HA-2: 4-4.5   | 4-4.5       | x        |          |      | x    | x    | x           |            |
|           | DP-5-10       | 9.5-10      | x        |          |      |      | x    |             | x          |
| DP-6/HA-3 | HA-3: 0.5-1.5 | 0.5-1.5     | x        |          |      | x    | x    | x           |            |

| Boring ID | Sample ID   | Depth, feet | NWTPH-Dx | NWTPH-Gx | BTEX | PAHs | PCBs | RCRA Metals | Cd, Cr, Pb |
|-----------|-------------|-------------|----------|----------|------|------|------|-------------|------------|
|           | HA-3: 2-2.5 | 2-2.5       | x        |          |      | x    | x    | x           |            |
|           | DP-6-10     | 9.5-10      | x        |          |      |      | x    |             | x          |

**Abbreviations:** ID = identification; NWTPH-Dx = northwest total petroleum hydrocarbons – diesel; NWTPH-Gx = northwest total petroleum hydrocarbons – gasoline; BTEX = benzene, toluene, ethylbenzene, and xylenes; PAH = polycyclic aromatic hydrocarbon; PCB = polychlorinated biphenyls; RCRA = Resource Conservation and Recovery Act; Cd = Cadmium; Cr = Chromium; Pb = lead

## 4 ANALYTICAL RESULTS

### 4.1 Soil Sample Analytical Results

Samples were field screened for obvious signs of contamination using visual and olfactory evaluation methods. Staining, petroleum odor, or both were observed in three explorations (DP-1, DP-4, and DP-5/HA-2). Material from all explorations was screened using a PID. Explorations DP-3/HA-1, DP-4, DP-5/HA-2, and DP-6/HA-3 had PID readings of 0.0 to less than 1 parts per million (ppm). Exploration DP-1 had a maximum PID reading of 22.8 ppm at a depth between 19.5 feet and 20 feet. Exploration DP-2 had a maximum PID reading of 54.5 ppm at a depth between 8.5 feet and 9 feet. The explorations encountered silt, sand, gravel, and cobbles with varying amounts of scattered brick, asphalt, and organics. All encountered material was interpreted as fill. General descriptions of the materials encountered are provided in Table 1A (Appendix A).

Laboratory analytical testing of soil samples indicates heavy metals exceeding CFSLs were detected in explorations DP-1, DP-3/HA-1, DP-5/HA-2, and DP-6/HA-3. One sample, DP-3-10 from exploration DP-3/HA-1, showed lead concentrations above the established RBC for the Excavation Worker—soil ingestion, dermal contact, and inhalation exposure pathway scenario. Based on supplemental toxicity characteristic leaching procedure (TCLP) testing, this material appears to exhibit characteristics of hazardous waste.

Laboratory analytical testing of samples from explorations DP-5/HA-2 and DP-6/HA-3 exceeded CFSLs for the PAH benzo(a)pyrene. The CFSL for PCBs was exceeded in one sample from exploration DP-6/HA-3.

All other analytes were present below regulatory thresholds or were not present above laboratory detection limits. Copies of the Apex Laboratories, LLC reports and corresponding chain-of-custody documentation are included in Appendix B. Summary tables of the analytical results are presented below.

### 4.2 Metals

Arsenic was detected in sample HA-1: 0.5-1.5 in boring DP-3/HA-1 at 9.78 mg/kg, above the 8.8 mg/kg CFSL and below the Excavation RBC of 420 mg/kg. Where analyzed, barium was detected above laboratory quantitation limits and below established CFSL and RBC

values. Cadmium was analyzed in all samples and was found above the CFSL of 0.63 mg/kg in samples HA-1: 0.5-1.5 (0.696 mg/kg) and DP-5-10 (1.82 mg/kg). All other samples showed levels lower than CFSLs or were below the laboratory quantitation limits. All detected cadmium concentrations were below the Excavation Worker RBC of 9,700 mg/kg. Chromium was detected in all samples above laboratory quantitation limits; two samples showed elevated chromium concentrations above the CFSL (76 mg/kg). These include sample HA-2: 0.5-1.5 (118 mg/kg) and DP-5-10 (176 mg/kg). All detected chromium concentrations were below the Excavation Worker RBC of 1,400 mg/kg. Where analyzed, mercury was present above laboratory quantitation limits in two samples at levels below CFSLs and Excavation Worker RBCs. Where analyzed, neither selenium nor silver were present above laboratory quantitation limits.

Lead was detected in all samples above laboratory quantitation limits. Nine samples had elevated lead concentrations above the CFSL of 28 mg/kg. Of these, sample DP-3-10 had a lead concentration of 13,500 mg/kg, greater than the Excavation Worker RBC of 800 mg/kg.

Based on initial laboratory results of lead concentrations greater than 100 mg/kg, supplemental TCLP testing was conducted for lead on samples HA-1: 0.5-1.5, HA-2: 0.5-1.5, HA-3: 2-2.5, DP-1-2, DP-3-10, DP-5-10, and DP-6-10. Sample DP-3-10 had a TCLP result of 168 milligrams per liter (mg/L), greater than the regulatory screening level of 5 mg/L, indicating this material has characteristics of hazardous waste. No other lead TCLP results exceeded 5 mg/L. Based on initial laboratory results greater than 100 mg/kg, supplemental TCLP testing for chromium was conducted on two samples: DP-5-10 (176 mg/kg) and HA-2: 0.5-1.5 (118 mg/kg). TCLP results indicate the material in these areas does not exhibit toxic characteristics of hazardous waste.

Summary Table 4-1 presents the levels of detected metals in the soil. Analytical lab reports are presented in Appendix B.

#### **4.3 Petroleum**

Oil was detected in 11 of 17 samples above the laboratory quantitation limits and below the CFSL of 1,100 mg/kg at concentrations ranging from 145 mg/kg to 2,440 mg/kg. Diesel and gasoline (where analyzed) were not detected above the corresponding laboratory quantitation limits. The Excavation Worker RBCs were not exceeded. Summary Table 4-2 presents the levels of petroleum compounds detected in soil. Analytical lab reports are presented in Appendix B.

Table 4-1: METALS DETECTED IN SOIL (mg/kg)

| Boring ID         | Sample ID     | Arsenic,<br>mg/kg | Barium,<br>mg/kg | Cadmium,<br>mg/kg | Chromium,<br>mg/kg | Lead,<br>mg/kg    | Mercury,<br>mg/kg | Selenium,<br>mg/kg | Silver,<br>mg/kg |
|-------------------|---------------|-------------------|------------------|-------------------|--------------------|-------------------|-------------------|--------------------|------------------|
| DP-1              | DP-1-2        | -                 | -                | 0.386             | 8.37 (Q-42)        | <b>140 (Q-42)</b> | -                 | -                  | -                |
|                   | DP-1-10       | -                 | -                | ND                | 8.49               | 5.21              | -                 | -                  | -                |
|                   | DP-1-20       | 2.61              | 53.3             | ND                | 8.68               | 2                 | ND                | ND                 | ND               |
| DP-2              | DP-2-2        | -                 | -                | ND                | 30.5               | 25.9              | -                 | -                  | -                |
|                   | DP-2-9        | 2.66              | 79.2             | ND                | 10.9               | 17.7              | ND                | ND                 | ND               |
|                   | DP-2-20       | -                 | -                | ND                | 7.75               | 2.83              | -                 | -                  | -                |
| DP-3/HA-1         | HA-1: 0.5-1.5 | <b>9.78</b>       | 123              | <b>0.696</b>      | 54.9               | <b>182</b>        | ND                | ND                 | ND               |
|                   | DP-3-10       | -                 | -                | 0.496             | 31.8               | <b>13,500</b>     | -                 | -                  | -                |
| DP-4              | DP-4-2        | -                 | -                | ND                | 8.63               | 11.8              | -                 | -                  | -                |
|                   | DP-4-9        | -                 | -                | ND                | 10.1               | 2.45              | -                 | -                  | -                |
|                   | DP-4-20       | -                 | -                | ND                | 9.93               | 2.04              | -                 | -                  | -                |
| DP-5/HA-2         | HA-2: 0.5-1.5 | 8.4               | 130              | 0.568             | <b>118</b>         | <b>167</b>        | ND                | ND                 | ND               |
|                   | HA-2: 4-4.5   | 3.45              | 117              | ND                | 11                 | <b>56.3</b>       | 0.134             | ND                 | ND               |
|                   | DP-5-10       | -                 | -                | <b>1.82</b>       | <b>176</b>         | <b>398</b>        | -                 | -                  | -                |
| DP-6/HA-3         | HA-3: 0.5-1.5 | 2.82              | 98.2             | ND                | 10.1               | <b>50.2</b>       | ND                | ND                 | ND               |
|                   | HA-3: 2-2.5   | 3.58              | 99.3             | 0.603             | 11.6               | <b>149</b>        | 0.138             | ND                 | ND               |
|                   | DP-6-10       | -                 | -                | 0.31              | 24                 | <b>167</b>        | -                 | -                  | -                |
| CFSL <sup>1</sup> |               | 8.8               | 790              | 0.63              | 76                 | 28                | 0.23              | 0.71               | 0.82             |
| RBC <sup>2</sup>  |               | 420               | NE               | 9,700             | 1,400              | 800               | 2,900             | NE                 | 49,000           |

**Abbreviations:** ID = identification; mg/kg = milligrams per kilogram; - = not analyzed; ND = not detected; NE = not established

**Notes:**

<sup>1</sup> = CFSLs are based on DEQ established natural background levels for the Portland Basin

<sup>2</sup> = Excavation Worker – soil ingestion, dermal contact, and inhalation exposure scenario

**Bold:** Above CFSL

**Highlighted:** Above RBC

Lab Qualifier Q-42: Matrix spike and/or Duplicate analysis was preformed on this sample. % Recovery or relevant percent difference for this analysis is outside laboratory control limits (see lab report QC).

**Table 4-2: PETROLEUM DETECTED IN SOIL L**

| Boring ID        | Sample ID     | Diesel, mg/kg | Oil, mg/kg | Gasoline, mg/kg |
|------------------|---------------|---------------|------------|-----------------|
| DP-1             | DP-1-2        | ND            | 452        | -               |
|                  | DP-1-10       | ND            | 145        | -               |
|                  | DP-1-20       | ND            | ND         | ND              |
| DP-2             | DP-2-2        | ND            | ND         | -               |
|                  | DP-2-9        | ND            | ND         | -               |
|                  | DP-2-20       | ND            | ND         | ND              |
| DP-3/HA-1        | HA-1: 0.5-1.5 | ND            | 2440       | -               |
|                  | DP-3-10       | ND            | 387        | -               |
| DP-4             | DP-4-2        | ND            | 399        | -               |
|                  | DP-4-9        | ND            | ND         | -               |
|                  | DP-4-20       | ND            | ND         | -               |
| DP-5/HA-2        | HA-2: 0.5-1.5 | ND            | 467        | ND              |
|                  | HA-2: 4-4.5   | ND            | 455        | -               |
|                  | DP-5-10       | ND            | 714        | -               |
| DP-6/HA-3        | HA-3: 0.5-1.5 | ND            | 811        | -               |
|                  | HA-3: 2-2.5   | ND            | 741        | -               |
|                  | DP-6-10       | ND            | 149        | -               |
| CFSL             |               | 1,100         | 2,800      | 31              |
| RBC <sup>1</sup> |               | >Max          | >Max       | >Max            |

**Abbreviations:** ID = identification; mg/kg = milligrams per kilogram; ND = not detected above lab quantitation limit; - = no value

**Notes:**

<sup>1</sup> = Excavation Worker – soil ingestion, dermal contact, and inhalation exposure scenario

#### 4.4 Benzene, Toluene, Ethylbenzene, and Xylenes

BTEX constituents were not detected above the applicable laboratory reporting limits in the samples analyzed. Summary Table 4-3 presents BTEX constituents detected in soil. Analytical lab reports are presented in Appendix B.

**Table 4-3: BENZENE, TOLUENE, ETHYLBENZENE, AND XYLENES DETECTED IN SOIL**

| Boring ID | Sample ID          | Benzene, mg/kg | Ethylbenzene, mg/kg | Toluene, mg/kg | Xylenes, mg/kg |
|-----------|--------------------|----------------|---------------------|----------------|----------------|
| DP-1      | DP-1-20            | ND             | ND                  | ND             | ND             |
| DP-2      | DP-2-9             | ND             | ND                  | ND             | ND             |
| DP-5/HA-2 | HA-2: 0.5-1.5      | ND             | ND                  | ND             | ND             |
|           | CFSL               | 0.023          | 0.22                | 23             | 1.4            |
|           | RBC <sup>(a)</sup> | 11,000         | 49,000              | 770,000        | 560,000        |

**Abbreviations:** ID = identification; ND = not detected; CFSL = clean fill screening level; RBC = Risk-Based Concentration

**Notes:**

<sup>(a)</sup>Excavation Worker – soil ingestion, dermal contact, and inhalation exposure scenario

#### 4.5 Polychlorinated Biphenyls

PCB Aroclor 1260 was detected above the corresponding CFSL (0.24 mg/kg) in one sample, HA-3: 2-2.5 from boring DP-6/HA-3 (0.297 mg/kg). A total of seven other samples had concentrations of Aroclor 1260 above laboratory reporting limits and below CFSLs. Aroclor 1254 was detected above laboratory quantitation limits and below CFSLs in one of 17 samples. No other PCBs were detected. RBCs are not established for the PCB Aroclors analyzed for this assessment. Table 4-4 presents a summary of PCBs detected in soil. Analytical lab reports are presented in Appendix B.

#### 4.6 Polycyclic Aromatic Hydrocarbons

Benzo(a)pyrene was detected above the CFSL (0.11 mg/kg) and below the Excavation Worker RBC (490 mg/kg) in three samples (HA-2: 0.5-1.5, HA-2: 4-4.5, and HA-3: 2-2.5) at concentrations ranging from 0.125 mg/kg to 0.588 mg/kg. All other PAHs were detected below RBC and CFSL values or were not present at concentrations above laboratory reporting limits. Table 4-5 presents a summary of PAHs detected in soil. Analytical lab reports are presented in Appendix B.

**Table 4-4: POLYCHLORINATED BIPHENYLS DETECTED IN SOIL**

| Boring ID        | Sample ID     | Aroclor 1016,<br>mg/kg | Aroclor 1221,<br>mg/kg | Aroclor 1232,<br>mg/kg | Aroclor 1242,<br>mg/kg | Aroclor 1248,<br>mg/kg | Aroclor 1254,<br>mg/kg | Aroclor 1260,<br>mg/kg |
|------------------|---------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
| DP-1             | DP-1-2        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
|                  | DP-1-10       | ND                     | ND                     | ND                     | ND                     | ND                     | 0.011 (P-12)           | 0.0171 (P-12)          |
|                  | DP-1-20       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
| DP-2             | DP-2-2        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.0706                 |
|                  | DP-2-9        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
|                  | DP-2-20       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
| DP-3/HA-1        | HA-1: 0.5-1.5 | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.026 (P-12)           |
|                  | DP-3-10       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
| DP-4             | DP-4-2        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
|                  | DP-4-9        | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
|                  | DP-4-20       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.0102 (P-09)          |
| DP-5/HA-2        | HA-2: 0.5-1.5 | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.0413 (P-12)          |
|                  | HA-2: 4-4.5   | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
|                  | DP-5-10       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     |
| DP-6/HA-3        | HA-3: 0.5-1.5 | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.0158 (P-12)          |
|                  | HA-3: 2-2.5   | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | <b>0.297 (P-12)</b>    |
|                  | DP-6-10       | ND                     | ND                     | ND                     | ND                     | ND                     | ND                     | 0.0458                 |
| CFSL             |               | 1.1                    | 0.0048                 | 0.0048                 | 0.041                  | 0.0073                 | 0.041                  | 0.24                   |
| RBC <sup>1</sup> |               | NE                     | NE                     | NE                     | NE                     | NE                     | NE                     | NE                     |

**Abbreviations:** ID = identification; ND = not detected; NE = not established; mg/kg = milligrams per kilogram

**Notes:**

<sup>1</sup> = Excavation Worker: Soil Ingestion, Dermal Contact, and Inhalation exposure scenario

**Bold:** Above CFSL

P-12 : Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors

P-09 : Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are estimated and based on the closest matching Aroclor.

CFSLs are based on DEQ established natural background levels (NBL) for the Portland Basin

| Table 4-5: POLYCYCLIC AROMATIC HYDROCARBONS DETECTED IN SOIL                                                        |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |
|---------------------------------------------------------------------------------------------------------------------|---------------|------------------------|--------------------------|----------------------|-----------------------------|--------------------------|--------------------------------|--------------------------------|--------------------------------|--------------------|---------------------------------|------------------------|--------------------|----------------------------------|-------------------------------|-------------------------------|-----------------------|------------------------|------------------|------------------------|
| Boring ID                                                                                                           | Sample ID     | Acenaphthene,<br>mg/kg | Acenaphthylene,<br>mg/kg | Anthracene,<br>mg/kg | Benz(a)anthracene,<br>mg/kg | Benzo(a)pyrene,<br>mg/kg | Benzo(b)fluoranthene,<br>mg/kg | Benzo(k)fluoranthene,<br>mg/kg | Benzo(g,h,i)perylene,<br>mg/kg | Chrysene,<br>mg/kg | Dibenz(a,h)anthracene,<br>mg/kg | Fluoranthene,<br>mg/kg | Fluorene,<br>mg/kg | Indeno(1,2,3-cd)pyrene,<br>mg/kg | 1-Methylnaphthalene,<br>mg/kg | 2-Methylnaphthalene,<br>mg/kg | Naphthalene,<br>mg/kg | Phenanthrene,<br>mg/kg | Pyrene,<br>mg/kg | Dibenzofuran,<br>mg/kg |
| DP-1                                                                                                                | DP-1-20       | ND                     | ND                       | ND                   | ND                          | ND                       | ND                             | ND                             | ND                             | ND                 | ND                              | ND                     | ND                 | ND                               | ND                            | ND                            | ND                    | ND                     | ND               | ND                     |
| DP-2                                                                                                                | DP-2-9        | ND                     | ND                       | ND                   | ND                          | ND                       | ND                             | ND                             | ND                             | ND                 | ND                              | ND                     | ND                 | ND                               | ND                            | ND                            | ND                    | ND                     | ND               | ND                     |
| DP-3/HA-1                                                                                                           | HA-1: 0.5-1.5 | ND                     | ND                       | ND                   | ND                          | ND                       | ND                             | ND                             | ND                             | ND                 | ND                              | 0.102                  | ND                 | ND                               | ND                            | ND                            | ND                    | ND                     | 0.113            | ND                     |
| DP-5/HA-2                                                                                                           | HA-2: 0.5-1.5 | ND                     | ND                       | ND                   | 0.0871                      | <b>0.125</b>             | 0.222                          | 0.0702 (M-05)                  | 0.102                          | 0.158              | ND                              | 0.134                  | ND                 | 0.0986                           | ND                            | ND                            | ND                    | 0.0663                 | 0.156            | ND                     |
|                                                                                                                     | HA-2: 4-4.5   | ND                     | 0.103                    | 0.0801               | 0.499                       | <b>0.588</b>             | 0.67                           | 0.223 (M-05)                   | 0.307                          | 0.672              | 0.099                           | 0.724                  | ND                 | 0.322                            | ND                            | ND                            | 0.0681                | 0.241                  | 1.02             | ND                     |
| DP-6/HA-3                                                                                                           | HA-3: 0.5-1.5 | ND                     | ND                       | ND                   | ND                          | 0.0481                   | 0.061                          | ND                             | 0.0663                         | 0.0536 (M-05)      | ND                              | 0.0497                 | ND                 | ND                               | ND                            | ND                            | ND                    | ND                     | 0.0637           | ND                     |
|                                                                                                                     | HA-3: 2-2.5   | ND                     | 0.174                    | 0.146                | 0.34                        | <b>0.414</b>             | 0.446                          | 0.149 (M-05)                   | 0.423                          | 0.568              | 0.0627                          | 0.643                  | 0.0451             | 0.344                            | ND                            | ND                            | ND                    | 0.608                  | 0.859            | ND                     |
| CFSL                                                                                                                |               | 0.25                   | 120                      | 6.8                  | 0.73                        | 0.11                     | 1.1                            | 11                             | 25                             | 3.1                | 0.11                            | 10                     | 3.7                | 1.1                              | 0.36                          | 11                            | 0.077                 | 5.5                    | 10               | 0.002                  |
| RBC <sup>1</sup>                                                                                                    |               | 590,000                | NE                       | 350,000              | 4800                        | 490                      | 4900                           | 49000                          | NE                             | NE                 | 490                             | 280,000                | 390,000            | 4900                             | NE                            | NE                            | 16000                 | NE                     | 210,000          | NE                     |
| <b>Abbreviations:</b> ID = identification; mg/kg = milligrams per kilogram; ND = not detected; NE = not established |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |
| <b>Notes:</b>                                                                                                       |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |
| <sup>1</sup> = Excavation Worker – soil ingestion, dermal contact, and inhalation exposure scenario                 |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |
| <b>Bold:</b> Above CFSL                                                                                             |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |
| M-05: Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.        |               |                        |                          |                      |                             |                          |                                |                                |                                |                    |                                 |                        |                    |                                  |                               |                               |                       |                        |                  |                        |

## **5 CONCLUSIONS AND RECOMMENDATIONS**

### **5.1 Conclusions**

GRI conducted a Limited Scope Phase II ESA at the Subject Property, which consists of one approximately 1.82-acre parcel, identified as tax lot number 1S1E03D-00101 in Portland, Multnomah County, Oregon, in substantial conformance with ASTM E1903-19. A summary of the findings is provided below:

- GRI collected a total of 17 soil samples from six explorations, three of which used combined hand auger-machine drilled (direct push) exploratory techniques and three of which used machine-drilled (direct push) techniques. Soil samples were submitted to Apex Laboratory in Tigard, Oregon, for chemical analysis.
- Laboratory analytical testing of soil samples indicates heavy metals exceeding CFSLs were detected in explorations DP-1, DP-3/HA-1, DP-5/HA-2, and DP-6/HA-3. One sample, DP-3-10 from exploration DP-3/HA-1, showed lead concentrations of 13,500 mg/kg, above the lead CFSL (28 mg/kg) and the established RBC for the Excavation Worker—soil ingestion, dermal contact, and inhalation exposure pathway scenario (800 mg/kg). Based on supplemental TCLP testing, this material appears to exhibit characteristics of hazardous waste.
- Laboratory analytical testing results of samples from explorations DP-5/HA-2 and DP-6/HA-3 indicate analyte concentrations exceeded CFSLs for the PAH benzo(a)pyrene. The CFSL for PCBs was exceeded in one sample from exploration DP-6/HA-3.
- All other analytes were present below regulatory thresholds or were not present above laboratory reporting limits.
- Staining, petroleum odor, or both were observed in three explorations (DP-1, DP-4, and DP-5/HA-2). According to the Oregon DEQ, “if the material appears chemically stained or has a chemical smell, it is not clean fill.” In addition, material handled and disposed of as clean fill “does not include putrescible wastes, construction and demolition wastes, or industrial solid wastes.”
- Groundwater was not encountered during site exploration activities.

### **5.2 Recommendations**

Based on the findings of this investigation, GRI recommends the following:

- Based on the results of this ESA, samples from the general location of exploration DP-2 generally appear to meet clean fill standards.

- Soil in the vicinity of explorations DP-1, DP-4, DP-5/HA-2, and DP-6/HA-3 does not appear to meet conditions required for unrestricted use, and any excavated material in this area should be handled as non-clean fill and disposed of as solid waste at an approved landfill.
- Soil in the vicinity of exploration DP-3/HA-1 exceeded the Excavation Worker RBC for lead and appears to have characteristics of hazardous waste. Special handling and disposal requirements may apply to material generated in this area, depending on site redevelopment goals. Soil excavated from this area will require disposal as hazardous waste at a chemical waste landfill in Arlington, Oregon.
- Depending on future site redevelopment goals, additional soil and sediment sampling is recommended to more adequately define the lateral and vertical extents of possible residual contamination at the Subject Property to identify regulatory requirements, evaluate soil handling and disposal options, and determine appropriate safeguards for human health and safety. DEQ coordination may be required for redevelopment activities based on the Subject Property regulatory history and nearby active regulatory sites.
- Groundwater at the Subject Property, which is a former industrial facility with numerous industrial and regulatory sites nearby, is likely not suitable for beneficial use. Groundwater sampling and analysis is recommended as part of future site redevelopment activities to inform handling and disposal options, depending on future site dewatering needs during construction.
- Unanticipated contaminated soil pockets could be encountered during project site redevelopment. Based on future site redevelopment goals, a Contaminated Media Management Plan (CMMP) may be warranted to establish procedures that would be followed to manage contaminated soil identified during this assessment and in the event that unanticipated contaminated soil, sediment, and/or groundwater are discovered during construction. GRI can prepare a proposal to develop a CMMP upon request.

We have included as Appendix B the Geoprofessional Business Association guidance document "Important Information about This Geoenvironmental Report" to assist you and others in understanding the use and limitations of this report. We recommend you read this document.

We appreciate the opportunity to be of service to you. Please contact the undersigned if you have any questions regarding this report or require further assistance.

Submitted for GRI,



RENEWS: 02/2025

George A. Freitag, CEG  
Principal

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

Gregory D. Martin, CEG  
Senior Geologist

This document has been submitted electronically.

## 6 REFERENCES

- GRI, 2024, Phase I environmental site assessment, OMSI Crescent Parcel, dated November 12, 2024.
- U.S. Geological Survey, 2020, Portland quadrangle, Oregon-Washington 7.5-Minute topographic map: 1:24,000 scale.
- Wells, R. E, Haugerud, R. A., Niem, A. R., Niem, W. A., Ma, L., Evarts, R. C., O'Connor, J. E., Madin, I. P., Sherrod, D. R., Beeson, M. H., et al., 2020, Geologic map of the greater Portland metropolitan area and surrounding region, Oregon and Washington: U.S. Geological Survey, Scientific Investigations Map 3443.



**LEGEND:**

 Crescent Parcel

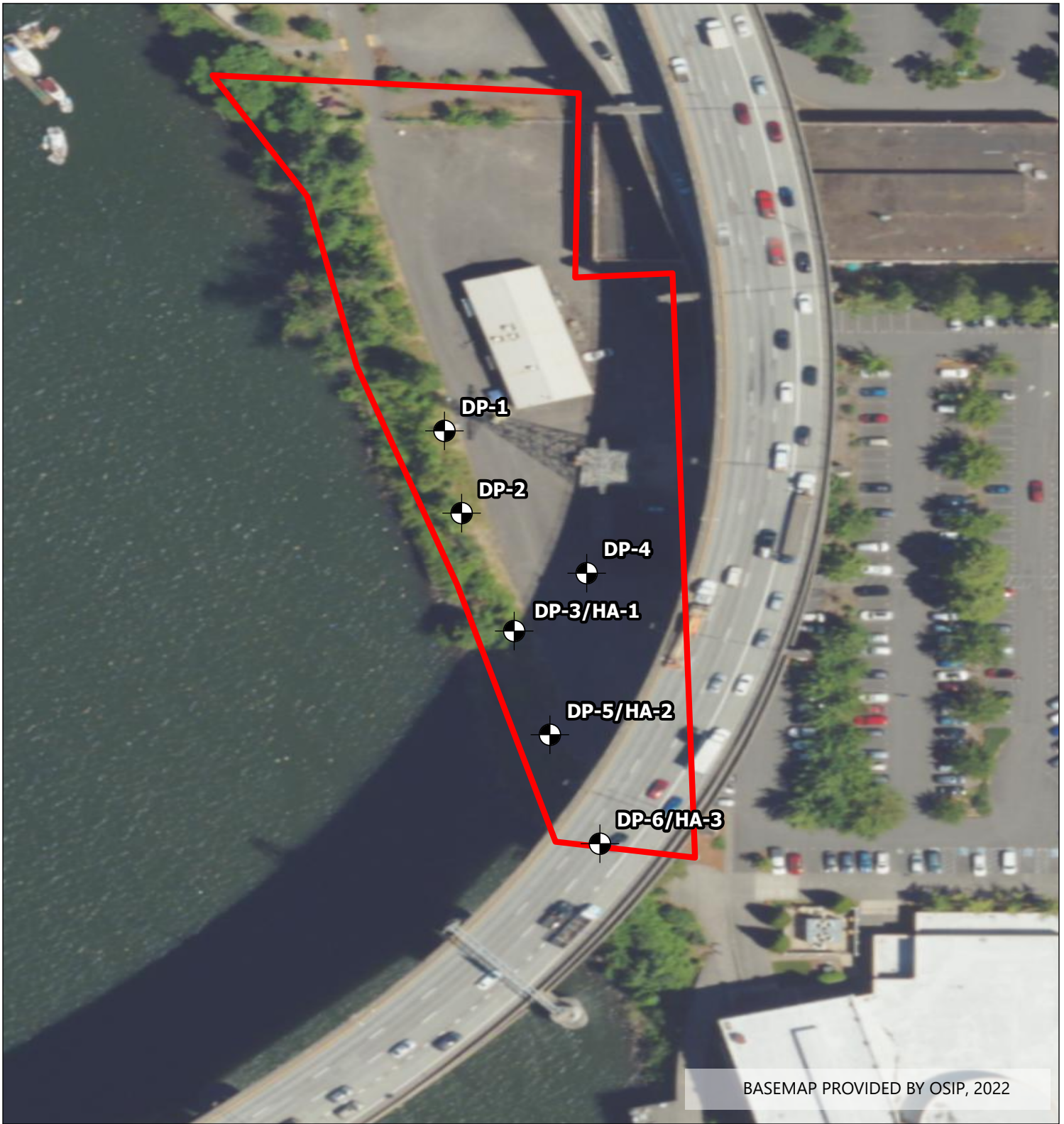
N

0 600 1,200

1 INCH = 600 FEET

**GRI** OMSI  
CRESCENT PARCEL

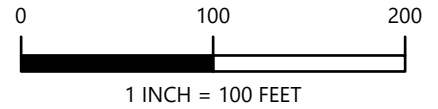
**VICINITY MAP**



**LEGEND:**

 Crescent Parcel

 APPROXIMATE LOCATION OF SAMPLING LOCATIONS



OMSI  
CRESCENT PARCEL

# SITE PLAN



## **APPENDIX A**

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### *Summary of Subsurface Materials*

**Table 1A: SUMMARY OF SUBSURFACE MATERIALS**

| Exploration ID | Sample ID     | Sample Depth, feet | Exploration Method | PID, ppm | Material Description                                                                                                   |
|----------------|---------------|--------------------|--------------------|----------|------------------------------------------------------------------------------------------------------------------------|
| DP-1           | DP-1-2        | 1.5-2              | Direct Push        | 0.0      | 0 feet – 2.5 feet: Sandy GRAVEL, some silt, dark brown, moist, scattered organics (FILL)                               |
|                | DP-1-10       | 9.5-10             |                    | 0.0      | 2.5 feet – 12.5 feet: Silty SAND, brown, moist; minor staining, slight petroleum odor (FILL)                           |
|                | DP-1-20       | 19.5-20            |                    | 22.8     | -trace to some gravel, scattered organics and brick fragments; minor staining, no odor (9 feet – 12.5 feet)            |
| DP-2           | DP-2-2        | 1.5-2              | Direct Push        | 1.4      | 12.5 feet – 17 feet: SAND, trace gravel, some silt, brown to gray, moist (FILL)                                        |
|                | DP-2-9        | 8.5-9              |                    | 54.5     | 17 feet – 20 feet: Gravelly SAND, trace silt, moist; petroleum odor (FILL)                                             |
|                | DP-2-20       | 19.5-20            |                    | 3.1      | 0 feet – 3 feet: Silty, Sandy GRAVEL, brown, moist, contains brick fragments (FILL)                                    |
| DP-3/HA-1      | HA-1: 0.5-1.5 | 0.5-1.5            | Hand Auger         | 0.1      | 3 feet – 7.5 feet: SILT, some sand, brown, moist (FILL)                                                                |
|                | DP-3-10       | 9.5-10             | Direct Push        | 0.0      | 7.5 feet – 11 feet: SAND, some silt, trace gravel, brown, moist (FILL)                                                 |
| DP-4           | DP-4-2        | 1.5-2              | Direct Push        | 0.0      | 11 feet – 20 feet: Sandy GRAVEL to Gravelly SAND, brown to gray, moist (FILL)                                          |
|                | DP-4-9        | 9.5-10             |                    | 0.0      | 0 feet – 3.5 feet: Sandy GRAVEL to Gravelly SAND, brown to gray, moist, contains brick fragments; some staining (FILL) |
|                | DP-4-20       | 19.5-20            |                    | 0.0      | 3.5 feet – 10 feet: SAND, some silt, trace gravel, brown, moist, some staining and minor petroleum odor (FILL)         |
| DP-5/HA-2      | HA-2: 0.5-1.5 | 0.5-1.5            | Hand Auger         | 0.5      | 0 feet – 15 feet: Sandy GRAVEL, some silt, brown, moist, minor odor (FILL)                                             |
|                | HA-2: 4-4.5   | 4-4.5              |                    | 0.0      | --scattered brick beginning at 7.5 feet                                                                                |
|                | DP-5-10       | 9.5-10             | Direct Push        | 0.0      | --increased staining below 7.5 feet                                                                                    |

**Table 1A: SUMMARY OF SUBSURFACE MATERIALS**

| Exploration ID | Sample ID     | Sample Depth, feet | Exploration Method | PID, ppm | Material Description                                                                                      |
|----------------|---------------|--------------------|--------------------|----------|-----------------------------------------------------------------------------------------------------------|
| DP-6/HA-3      | HA-3: 0.5-1.5 | 1.5-2              | Hand Auger         | 0.0      | 0 feet – 0.5 feet: Sandy SILT, trace gravel, brown, moist (FILL)                                          |
|                | HA-3: 2-2.5   | 2-2.5              |                    | 0.0      | 0.5 feet – 2.5 feet: Silty SAND, trace gravel and cobbles, gray, moist, scattered brick fragments (FILL)  |
|                |               |                    |                    |          | 2.5 feet – 7.5 feet: Silty GRAVEL, some sand, brown to gray, damp (FILL)                                  |
|                | DP-6-10       | 9.5-10             | Direct Push        | 0.0      | 7.5 feet – 10 feet: Sandy SILT – Silty SAND, trace gravel, brown, moist, scattered brick fragments (FILL) |

**Abbreviations:** ID = identification; PID = photo-ionization detector; ppm = parts per million



## **APPENDIX B**

*Apex Laboratories, LLC Analytical Laboratory Reports*



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

Tuesday, July 2, 2024

Greg Martin

GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

RE: A4D1396 - 6909-A - 6909-A

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4D1396, which was received by the laboratory on 4/18/2024 at 2:30:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [dthomas@apex-labs.com](mailto:dthomas@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler 1.3 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



Apex Laboratories

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Darwin Thomas, Business Development Director



## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

### ANALYTICAL REPORT FOR SAMPLES

#### SAMPLE INFORMATION

| Client Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| HA-1:0.5-1.5     | A4D1396-01    | Soil   | 04/17/24 15:44 | 04/18/24 14:30 |
| HA-2:0.5-1.5     | A4D1396-02    | Soil   | 04/17/24 12:56 | 04/18/24 14:30 |
| HA-2:4-4.5       | A4D1396-03    | Soil   | 04/17/24 13:45 | 04/18/24 14:30 |
| HA-3:0.5-1.5     | A4D1396-04    | Soil   | 04/17/24 14:34 | 04/18/24 14:30 |
| HA-3:2-2.5       | A4D1396-05    | Soil   | 04/17/24 15:07 | 04/18/24 14:30 |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825****ANALYTICAL SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

| Analyte                             | Sample Result | Detection Limit     | Reporting Limit | Units                 | Dilution | Date Analyzed  | Method Ref. | Notes |
|-------------------------------------|---------------|---------------------|-----------------|-----------------------|----------|----------------|-------------|-------|
| <b>HA-1:0.5-1.5 (A4D1396-01)</b>    |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0881</b> |          |                |             |       |
| Diesel                              | ND            | ---                 | 763             | mg/kg dry             | 40       | 04/24/24 22:25 | NWTPH-Dx    |       |
| Oil                                 | <b>2440</b>   | ---                 | 1530            | mg/kg dry             | 40       | 04/24/24 22:25 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)       |               | Recovery: %         |                 | Limits: 50-150 %      | 40       | 04/24/24 22:25 | NWTPH-Dx    | S-01  |
| <b>HA-2:0.5-1.5 (A4D1396-02RE1)</b> |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D1134</b> |          |                |             |       |
| Diesel                              | ND            | ---                 | 192             | mg/kg dry             | 10       | 05/01/24 10:55 | NWTPH-Dx    |       |
| Oil                                 | <b>467</b>    | ---                 | 385             | mg/kg dry             | 10       | 05/01/24 10:55 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)       |               | Recovery: 89 %      |                 | Limits: 50-150 %      | 10       | 05/01/24 10:55 | NWTPH-Dx    | S-05  |
| <b>HA-2:4-4.5 (A4D1396-03)</b>      |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0881</b> |          |                |             |       |
| Diesel                              | ND            | ---                 | 216             | mg/kg dry             | 10       | 04/24/24 22:45 | NWTPH-Dx    |       |
| Oil                                 | <b>455</b>    | ---                 | 431             | mg/kg dry             | 10       | 04/24/24 22:45 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)       |               | Recovery: 85 %      |                 | Limits: 50-150 %      | 10       | 04/24/24 22:45 | NWTPH-Dx    | S-05  |
| <b>HA-3:0.5-1.5 (A4D1396-04)</b>    |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0881</b> |          |                |             |       |
| Diesel                              | ND            | ---                 | 189             | mg/kg dry             | 10       | 04/24/24 23:27 | NWTPH-Dx    |       |
| Oil                                 | <b>811</b>    | ---                 | 377             | mg/kg dry             | 10       | 04/24/24 23:27 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)       |               | Recovery: 86 %      |                 | Limits: 50-150 %      | 10       | 04/24/24 23:27 | NWTPH-Dx    | S-05  |
| <b>HA-3:2-2.5 (A4D1396-05)</b>      |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0881</b> |          |                |             |       |
| Diesel                              | ND            | ---                 | 203             | mg/kg dry             | 10       | 04/25/24 00:08 | NWTPH-Dx    |       |
| Oil                                 | <b>741</b>    | ---                 | 407             | mg/kg dry             | 10       | 04/25/24 00:08 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)       |               | Recovery: 87 %      |                 | Limits: 50-150 %      | 10       | 04/25/24 00:08 | NWTPH-Dx    | S-05  |

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ANALYTICAL REPORT

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503-718-2323  
ORELAP ID: OR100062

**GRI**  
16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **6909-A**  
Project Number: **6909-A**  
Project Manager: **Greg Martin**

**Report ID:**  
**A4D1396 - 07 02 24 0825**

ANALYTICAL SAMPLE RESULTS

Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte                               | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref.   | Notes |
|---------------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|---------------|-------|
| <b>HA-2:0.5-1.5 (A4D1396-02)</b>      |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0954</b> |               |       |
| Gasoline Range Organics               | ND            | ---             | 4.26            | mg/kg dry           | 50       | 04/25/24 13:06        | NWTPH-Gx (MS) |       |
| Surrogate: 4-Bromofluorobenzene (Sur) |               | Recovery:       | 103 %           | Limits: 50-150 %    | 1        | 04/25/24 13:06        | NWTPH-Gx (MS) |       |
| 1,4-Difluorobenzene (Sur)             |               |                 | 99 %            | 50-150 %            | 1        | 04/25/24 13:06        | NWTPH-Gx (MS) |       |

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**Report ID:**

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## ANALYTICAL SAMPLE RESULTS

### BTEX Compounds by EPA 8260D

| Analyte                                      | Sample Result | Detection Limit        | Reporting Limit | Units                   | Dilution              | Date Analyzed         | Method Ref.        | Notes |
|----------------------------------------------|---------------|------------------------|-----------------|-------------------------|-----------------------|-----------------------|--------------------|-------|
| <b>HA-2:0.5-1.5 (A4D1396-02)</b>             |               | <b>Matrix: Soil</b>    |                 |                         | <b>Batch: 24D0954</b> |                       |                    |       |
| Benzene                                      | ND            | ---                    | 0.00851         | mg/kg dry               | 50                    | 04/25/24 13:06        | 5035A/8260D        |       |
| Toluene                                      | ND            | ---                    | 0.0426          | mg/kg dry               | 50                    | 04/25/24 13:06        | 5035A/8260D        |       |
| Ethylbenzene                                 | ND            | ---                    | 0.0213          | mg/kg dry               | 50                    | 04/25/24 13:06        | 5035A/8260D        |       |
| Xylenes, total                               | ND            | ---                    | 0.0639          | mg/kg dry               | 50                    | 04/25/24 13:06        | 5035A/8260D        |       |
| <i>Surrogate: 1,4-Difluorobenzene (Surr)</i> |               | <i>Recovery: 101 %</i> |                 | <i>Limits: 80-120 %</i> | <i>1</i>              | <i>04/25/24 13:06</i> | <i>5035A/8260D</i> |       |
| <i>Toluene-d8 (Surr)</i>                     |               | <i>98 %</i>            |                 | <i>80-120 %</i>         | <i>1</i>              | <i>04/25/24 13:06</i> | <i>5035A/8260D</i> |       |
| <i>4-Bromofluorobenzene (Surr)</i>           |               | <i>101 %</i>           |                 | <i>79-120 %</i>         | <i>1</i>              | <i>04/25/24 13:06</i> | <i>5035A/8260D</i> |       |

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Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

## Report ID:

A4D1396 - 07 02 24 0825

## ANALYTICAL SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                              | Sample Result | Detection Limit     | Reporting Limit | Units                 | Dilution | Date Analyzed  | Method Ref. | Notes       |
|--------------------------------------|---------------|---------------------|-----------------|-----------------------|----------|----------------|-------------|-------------|
| <b>HA-1:0.5-1.5 (A4D1396-01)</b>     |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0823</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| <b>Aroclor 1260</b>                  | <b>0.0260</b> | ---                 | 0.00895         | mg/kg dry             | 1        | 04/23/24 20:08 | EPA 8082A   | <b>P-12</b> |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 99 %      |                 | Limits: 60-125 %      | 1        | 04/23/24 20:08 | EPA 8082A   |             |
| <b>HA-2:0.5-1.5 (A4D1396-02)</b>     |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0823</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| <b>Aroclor 1260</b>                  | <b>0.0413</b> | ---                 | 0.00998         | mg/kg dry             | 1        | 04/23/24 20:43 | EPA 8082A   | <b>P-12</b> |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 93 %      |                 | Limits: 60-125 %      | 1        | 04/23/24 20:43 | EPA 8082A   |             |
| <b>HA-2:4-4.5 (A4D1396-03)</b>       |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0823</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 88 %      |                 | Limits: 60-125 %      | 1        | 04/23/24 21:19 | EPA 8082A   |             |
| <b>HA-3:0.5-1.5 (A4D1396-04)</b>     |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24D0823</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 04/23/24 21:54 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 04/23/24 21:54 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 04/23/24 21:54 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 04/23/24 21:54 | EPA 8082A   |             |

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503-718-2323  
ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

### ANALYTICAL SAMPLE RESULTS

#### Polychlorinated Biphenyls by EPA 8082A

| Analyte                                     | Sample Result | Detection Limit       | Reporting Limit | Units                   | Dilution | Date Analyzed         | Method Ref.      | Notes       |
|---------------------------------------------|---------------|-----------------------|-----------------|-------------------------|----------|-----------------------|------------------|-------------|
| <b>HA-3:0.5-1.5 (A4D1396-04)</b>            |               |                       |                 | <b>Matrix: Soil</b>     |          | <b>Batch: 24D0823</b> |                  | <b>C-07</b> |
| Aroclor 1248                                | ND            | ---                   | 0.00942         | mg/kg dry               | 1        | 04/23/24 21:54        | EPA 8082A        |             |
| Aroclor 1254                                | ND            | ---                   | 0.00942         | mg/kg dry               | 1        | 04/23/24 21:54        | EPA 8082A        |             |
| <b>Aroclor 1260</b>                         | <b>0.0158</b> | ---                   | 0.00942         | mg/kg dry               | 1        | 04/23/24 21:54        | EPA 8082A        | <b>P-12</b> |
| <i>Surrogate: Decachlorobiphenyl (Surr)</i> |               | <i>Recovery: 96 %</i> |                 | <i>Limits: 60-125 %</i> | <i>1</i> | <i>04/23/24 21:54</i> | <i>EPA 8082A</i> |             |
| <b>HA-3:2-2.5 (A4D1396-05)</b>              |               |                       |                 | <b>Matrix: Soil</b>     |          | <b>Batch: 24D0823</b> |                  | <b>C-07</b> |
| Aroclor 1016                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| Aroclor 1221                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| Aroclor 1232                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| Aroclor 1242                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| Aroclor 1248                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| Aroclor 1254                                | ND            | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| <b>Aroclor 1260</b>                         | <b>0.297</b>  | ---                   | 0.0100          | mg/kg dry               | 1        | 04/23/24 22:29        | EPA 8082A        |             |
| <i>Surrogate: Decachlorobiphenyl (Surr)</i> |               | <i>Recovery: 96 %</i> |                 | <i>Limits: 60-125 %</i> | <i>1</i> | <i>04/23/24 22:29</i> | <i>EPA 8082A</i> |             |

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503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                            | Sample Result | Detection Limit | Reporting Limit | Units            | Dilution | Date Analyzed  | Method Ref.   | Notes |
|------------------------------------|---------------|-----------------|-----------------|------------------|----------|----------------|---------------|-------|
| HA-1:0.5-1.5 (A4D1396-01)          |               |                 |                 | Matrix: Soil     |          | Batch: 24D1133 |               |       |
| Acenaphthene                       | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Acenaphthylene                     | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Anthracene                         | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Benz(a)anthracene                  | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Benzo(a)pyrene                     | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Benzo(b)fluoranthene               | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Benzo(k)fluoranthene               | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Benzo(g,h,i)perylene               | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Chrysene                           | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Dibenz(a,h)anthracene              | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Fluoranthene                       | 0.102         | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Fluorene                           | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Indeno(1,2,3-cd)pyrene             | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| 1-Methylnaphthalene                | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| 2-Methylnaphthalene                | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Naphthalene                        | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Phenanthrene                       | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Pyrene                             | 0.113         | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Dibenzofuran                       | ND            | ---             | 0.0960          | mg/kg dry        | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 75 %  |                 | Limits: 44-120 % | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| p-Terphenyl-d14 (Surr)             |               | 69 %            |                 | 54-127 %         | 10       | 04/30/24 20:25 | EPA 8270E SIM |       |
| HA-2:0.5-1.5 (A4D1396-02)          |               |                 |                 | Matrix: Soil     |          | Batch: 24D1133 |               |       |
| Acenaphthene                       | ND            | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Acenaphthylene                     | ND            | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Anthracene                         | ND            | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Benz(a)anthracene                  | 0.0871        | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Benzo(a)pyrene                     | 0.125         | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Benzo(b)fluoranthene               | 0.222         | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Benzo(k)fluoranthene               | 0.0702        | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM | M-05  |
| Benzo(g,h,i)perylene               | 0.102         | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Chrysene                           | 0.158         | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |
| Dibenz(a,h)anthracene              | ND            | ---             | 0.0383          | mg/kg dry        | 4        | 04/30/24 20:51 | EPA 8270E SIM |       |

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Darwin Thomas, Business Development Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

## Report ID:

A4D1396 - 07 02 24 0825

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                            | Sample Result | Detection Limit | Reporting Limit | Units            | Dilution       | Date Analyzed  | Method Ref.   | Notes |
|------------------------------------|---------------|-----------------|-----------------|------------------|----------------|----------------|---------------|-------|
| HA-2:0.5-1.5 (A4D1396-02)          |               |                 |                 | Matrix: Soil     | Batch: 24D1133 |                |               |       |
| Fluoranthene                       | 0.134         | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Fluorene                           | ND            | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Indeno(1,2,3-cd)pyrene             | 0.0986        | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| 1-Methylnaphthalene                | ND            | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| 2-Methylnaphthalene                | ND            | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Naphthalene                        | ND            | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Phenanthrene                       | 0.0663        | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Pyrene                             | 0.156         | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Dibenzofuran                       | ND            | ---             | 0.0383          | mg/kg dry        | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 75 %  |                 | Limits: 44-120 % | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| p-Terphenyl-d14 (Surr)             |               | 69 %            |                 | 54-127 %         | 4              | 04/30/24 20:51 | EPA 8270E SIM |       |
| HA-2:4-4.5 (A4D1396-03)            |               |                 |                 | Matrix: Soil     | Batch: 24D1133 |                |               |       |
| Acenaphthene                       | ND            | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Acenaphthylene                     | 0.103         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Anthracene                         | 0.0801        | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Benz(a)anthracene                  | 0.499         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Benzo(a)pyrene                     | 0.588         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Benzo(b)fluoranthene               | 0.670         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Benzo(k)fluoranthene               | 0.223         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM | M-05  |
| Benzo(g,h,i)perylene               | 0.307         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Chrysene                           | 0.672         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Dibenz(a,h)anthracene              | 0.0990        | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Fluoranthene                       | 0.724         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Fluorene                           | ND            | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Indeno(1,2,3-cd)pyrene             | 0.322         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| 1-Methylnaphthalene                | ND            | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| 2-Methylnaphthalene                | ND            | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Naphthalene                        | 0.0681        | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Phenanthrene                       | 0.241         | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Pyrene                             | 1.02          | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Dibenzofuran                       | ND            | ---             | 0.0431          | mg/kg dry        | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 73 %  |                 | Limits: 44-120 % | 4              | 04/30/24 21:16 | EPA 8270E SIM |       |

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Darwin Thomas, Business Development Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

## Report ID:

A4D1396 - 07 02 24 0825

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                            | Sample Result | Detection Limit | Reporting Limit | Units            | Dilution | Date Analyzed  | Method Ref. | Notes         |
|------------------------------------|---------------|-----------------|-----------------|------------------|----------|----------------|-------------|---------------|
| HA-2:4-4.5 (A4D1396-03)            |               |                 |                 | Matrix: Soil     |          | Batch: 24D1133 |             |               |
| Surrogate: p-Terphenyl-d14 (Surr)  |               | Recovery: 66 %  |                 | Limits: 54-127 % | 4        | 04/30/24 21:16 |             | EPA 8270E SIM |
| HA-3:0.5-1.5 (A4D1396-04)          |               |                 |                 | Matrix: Soil     |          | Batch: 24D1133 |             |               |
| Acenaphthene                       | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Acenaphthylene                     | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Anthracene                         | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Benz(a)anthracene                  | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Benzo(a)pyrene                     | 0.0481        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Benzo(b)fluoranthene               | 0.0610        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Benzo(k)fluoranthene               | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Benzo(g,h,i)perylene               | 0.0663        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Chrysene                           | 0.0536        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Dibenz(a,h)anthracene              | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Fluoranthene                       | 0.0497        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Fluorene                           | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Indeno(1,2,3-cd)pyrene             | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| 1-Methylnaphthalene                | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| 2-Methylnaphthalene                | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Naphthalene                        | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Phenanthrene                       | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Pyrene                             | 0.0637        | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Dibenzofuran                       | ND            | ---             | 0.0457          | mg/kg dry        | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 84 %  |                 | Limits: 44-120 % | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| p-Terphenyl-d14 (Surr)             |               | 76 %            |                 | 54-127 %         | 5        | 04/30/24 21:41 |             | EPA 8270E SIM |
| HA-3:2-2.5 (A4D1396-05RE1)         |               |                 |                 | Matrix: Soil     |          | Batch: 24D1133 |             |               |
| Acenaphthene                       | ND            | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Acenaphthylene                     | 0.174         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Anthracene                         | 0.146         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Benz(a)anthracene                  | 0.340         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Benzo(a)pyrene                     | 0.414         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Benzo(b)fluoranthene               | 0.446         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Benzo(k)fluoranthene               | 0.149         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |
| Benzo(g,h,i)perylene               | 0.423         | ---             | 0.0404          | mg/kg dry        | 4        | 05/01/24 11:55 |             | EPA 8270E SIM |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                            | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref.   | Notes |
|------------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|---------------|-------|
| <b>HA-3:2-2.5 (A4D1396-05RE1)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D1133</b> |               |       |
| Chrysene                           | 0.568         | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Dibenz(a,h)anthracene              | 0.0627        | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Fluoranthene                       | 0.643         | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Fluorene                           | 0.0451        | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Indeno(1,2,3-cd)pyrene             | 0.344         | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| 1-Methylnaphthalene                | ND            | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| 2-Methylnaphthalene                | ND            | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Naphthalene                        | ND            | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Phenanthrene                       | 0.608         | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Pyrene                             | 0.859         | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Dibenzofuran                       | ND            | ---             | 0.0404          | mg/kg dry           | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 79 %  |                 | Limits: 44-120 %    | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |
| p-Terphenyl-d14 (Surr)             |               | 72 %            |                 | 54-127 %            | 4        | 05/01/24 11:55        | EPA 8270E SIM |       |

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 6020B (ICPMS)

| Analyte                                       | Sample Result | Detection Limit | Reporting Limit | Units     | Dilution | Date Analyzed  | Method Ref. | Notes |
|-----------------------------------------------|---------------|-----------------|-----------------|-----------|----------|----------------|-------------|-------|
| <b>HA-1:0.5-1.5 (A4D1396-01) Matrix: Soil</b> |               |                 |                 |           |          |                |             |       |
| Batch: 24D1084                                |               |                 |                 |           |          |                |             |       |
| Arsenic                                       | 9.78          | ---             | 1.09            | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Barium                                        | 123           | ---             | 1.09            | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Cadmium                                       | 0.696         | ---             | 0.217           | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Chromium                                      | 54.9          | ---             | 1.09            | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Lead                                          | 182           | ---             | 0.217           | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Mercury                                       | ND            | ---             | 0.0869          | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Selenium                                      | ND            | ---             | 1.09            | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| Silver                                        | ND            | ---             | 0.217           | mg/kg dry | 10       | 04/30/24 06:36 | EPA 6020B   |       |
| <b>HA-2:0.5-1.5 (A4D1396-02) Matrix: Soil</b> |               |                 |                 |           |          |                |             |       |
| Batch: 24D1084                                |               |                 |                 |           |          |                |             |       |
| Arsenic                                       | 8.40          | ---             | 1.22            | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Barium                                        | 130           | ---             | 1.22            | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Cadmium                                       | 0.568         | ---             | 0.243           | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Chromium                                      | 118           | ---             | 1.22            | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Lead                                          | 167           | ---             | 0.243           | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Mercury                                       | ND            | ---             | 0.0973          | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Selenium                                      | ND            | ---             | 1.22            | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| Silver                                        | ND            | ---             | 0.243           | mg/kg dry | 10       | 04/30/24 06:42 | EPA 6020B   |       |
| <b>HA-2:4-4.5 (A4D1396-03) Matrix: Soil</b>   |               |                 |                 |           |          |                |             |       |
| Batch: 24D1084                                |               |                 |                 |           |          |                |             |       |
| Arsenic                                       | 3.45          | ---             | 1.28            | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Barium                                        | 117           | ---             | 1.28            | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Cadmium                                       | ND            | ---             | 0.255           | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Chromium                                      | 11.0          | ---             | 1.28            | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Lead                                          | 56.3          | ---             | 0.255           | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Mercury                                       | 0.134         | ---             | 0.102           | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Selenium                                      | ND            | ---             | 1.28            | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| Silver                                        | ND            | ---             | 0.255           | mg/kg dry | 10       | 04/30/24 06:48 | EPA 6020B   |       |
| <b>HA-3:0.5-1.5 (A4D1396-04) Matrix: Soil</b> |               |                 |                 |           |          |                |             |       |
| Batch: 24D1084                                |               |                 |                 |           |          |                |             |       |

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 6020B (ICPMS)

| Analyte                   | Sample Result | Detection Limit | Reporting Limit | Units        | Dilution | Date Analyzed  | Method Ref. | Notes |
|---------------------------|---------------|-----------------|-----------------|--------------|----------|----------------|-------------|-------|
| HA-3:0.5-1.5 (A4D1396-04) |               |                 |                 | Matrix: Soil |          |                |             |       |
| Arsenic                   | 2.82          | ---             | 1.16            | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Barium                    | 98.2          | ---             | 1.16            | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Cadmium                   | ND            | ---             | 0.232           | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Chromium                  | 10.1          | ---             | 1.16            | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Lead                      | 50.2          | ---             | 0.232           | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Mercury                   | ND            | ---             | 0.0926          | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Selenium                  | ND            | ---             | 1.16            | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| Silver                    | ND            | ---             | 0.232           | mg/kg dry    | 10       | 04/30/24 06:54 | EPA 6020B   |       |
| HA-3:2-2.5 (A4D1396-05)   |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24D1084            |               |                 |                 |              |          |                |             |       |
| Arsenic                   | 3.58          | ---             | 1.14            | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Barium                    | 99.3          | ---             | 1.14            | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Cadmium                   | 0.603         | ---             | 0.229           | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Chromium                  | 11.6          | ---             | 1.14            | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Lead                      | 149           | ---             | 0.229           | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Mercury                   | 0.138         | ---             | 0.0915          | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Selenium                  | ND            | ---             | 1.14            | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |
| Silver                    | ND            | ---             | 0.229           | mg/kg dry    | 10       | 04/30/24 07:00 | EPA 6020B   |       |

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

### ANALYTICAL SAMPLE RESULTS

#### TCLP Metals by EPA 6020B (ICPMS)

| Analyte                          | Sample Result | Detection Limit     | Reporting Limit | Units | Dilution | Date Analyzed  | Method Ref. | Notes |
|----------------------------------|---------------|---------------------|-----------------|-------|----------|----------------|-------------|-------|
| <b>HA-1:0.5-1.5 (A4D1396-01)</b> |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24E0922                   |               |                     |                 |       |          |                |             |       |
| Lead                             | 0.0940        | ---                 | 0.0500          | mg/L  | 10       | 05/24/24 20:26 | 1311/6020B  |       |
| <b>HA-2:0.5-1.5 (A4D1396-02)</b> |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24E0922                   |               |                     |                 |       |          |                |             |       |
| Chromium                         | ND            | ---                 | 0.100           | mg/L  | 10       | 05/24/24 20:37 | 1311/6020B  |       |
| Lead                             | ND            | ---                 | 0.0500          | mg/L  | 10       | 05/24/24 20:37 | 1311/6020B  |       |
| <b>HA-3:2-2.5 (A4D1396-05)</b>   |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24E0922                   |               |                     |                 |       |          |                |             |       |
| Lead                             | ND            | ---                 | 0.0500          | mg/L  | 10       | 05/24/24 20:54 | 1311/6020B  |       |

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## ANALYTICAL REPORT

**Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

### ANALYTICAL SAMPLE RESULTS

#### Percent Dry Weight

| Analyte                          | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref. | Notes |
|----------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|-------------|-------|
| <b>HA-1:0.5-1.5 (A4D1396-01)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0786</b> |             |       |
| % Solids                         | 94.4          | ---             | 1.00            | %                   | 1        | 04/23/24 07:15        | EPA 8000D   |       |
| <b>HA-2:0.5-1.5 (A4D1396-02)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0786</b> |             |       |
| % Solids                         | 90.2          | ---             | 1.00            | %                   | 1        | 04/23/24 07:15        | EPA 8000D   |       |
| <b>HA-2:4-4.5 (A4D1396-03)</b>   |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0786</b> |             |       |
| % Solids                         | 81.9          | ---             | 1.00            | %                   | 1        | 04/23/24 07:15        | EPA 8000D   |       |
| <b>HA-3:0.5-1.5 (A4D1396-04)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0786</b> |             |       |
| % Solids                         | 92.9          | ---             | 1.00            | %                   | 1        | 04/23/24 07:15        | EPA 8000D   |       |
| <b>HA-3:2-2.5 (A4D1396-05)</b>   |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24D0786</b> |             |       |
| % Solids                         | 89.2          | ---             | 1.00            | %                   | 1        | 04/23/24 07:15        | EPA 8000D   |       |

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ANALYTICAL SAMPLE RESULTS

**TCLP Extraction by EPA 1311**

| Analyte                          | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref. | Notes |
|----------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|-------------|-------|
| <b>HA-1:0.5-1.5 (A4D1396-01)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24E0845</b> |             |       |
| TCLP Extraction                  | PREP          | ---             |                 | N/A                 | 1        | 05/23/24 14:15        | EPA 1311    |       |
| <b>HA-2:0.5-1.5 (A4D1396-02)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24E0845</b> |             |       |
| TCLP Extraction                  | PREP          | ---             |                 | N/A                 | 1        | 05/23/24 14:15        | EPA 1311    |       |
| <b>HA-3:2-2.5 (A4D1396-05)</b>   |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24E0845</b> |             |       |
| TCLP Extraction                  | PREP          | ---             |                 | N/A                 | 1        | 05/23/24 14:15        | EPA 1311    |       |

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**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units            | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|------------------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0881 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| Blank (24D0881-BLK1)                   |        |                 | Prepared: 04/24/24 05:51 |                  | Analyzed: 04/24/24 17:14 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 20.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Oil                                    | ND     | ---             | 40.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 91 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24D0881-BS1)                      |        |                 | Prepared: 04/24/24 05:51 |                  | Analyzed: 04/24/24 17:35 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | 109    | ---             | 20.0                     | mg/kg wet        | 1                        | 125          | ---           | 87    | 38-132%      | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 89 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24D0881-DUP1)               |        |                 | Prepared: 04/24/24 05:51 |                  | Analyzed: 04/24/24 18:17 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1374-01) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 23.8                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Oil                                    | 120    | ---             | 47.6                     | mg/kg dry        | 1                        | ---          | 71.6          | ---   | ---          | 50  | 30%       | Q-05  |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 87 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24D0881-DUP2)               |        |                 | Prepared: 04/24/24 05:51 |                  | Analyzed: 04/25/24 02:32 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1441-05) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 18.9                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Oil                                    | ND     | ---             | 37.8                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 89 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Batch 24D1134 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| Blank (24D1134-BLK2)                   |        |                 | Prepared: 04/30/24 10:13 |                  | Analyzed: 05/01/24 08:22 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 20.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Oil                                    | ND     | ---             | 40.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 89 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24D1134-BS1)                      |        |                 | Prepared: 04/30/24 10:13 |                  | Analyzed: 04/30/24 23:08 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | 128    | ---             | 20.0                     | mg/kg wet        | 1                        | 125          | ---           | 102   | 38-132%      | --- | ---       |       |

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# ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

### Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units            | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|------------------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D1134 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| LCS (24D1134-BS1)                      |        |                 | Prepared: 04/30/24 10:13 |                  | Analyzed: 04/30/24 23:08 |              |               |       |              |     |           |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 107 % |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24D1134-DUP1)               |        |                 | Prepared: 04/30/24 10:13 |                  | Analyzed: 04/30/24 23:49 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1363-01) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 20.6                     | mg/kg dry        | 1                        | ---          | 13.9          | ---   | ---          | *** | 30%       | F-17  |
| Oil                                    | 97.7   | ---             | 41.1                     | mg/kg dry        | 1                        | ---          | 82.6          | ---   | ---          | 17  | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 76 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24D1134-DUP2)               |        |                 | Prepared: 04/30/24 10:13 |                  | Analyzed: 05/01/24 02:11 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1673-02) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | 67.2   | ---             | 23.3                     | mg/kg dry        | 1                        | ---          | 32.6          | ---   | ---          | 69  | 30%       | Q-05  |
| Oil                                    | ND     | ---             | 46.7                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 80 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

Report ID:

A4D1396 - 07 02 24 0825

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte                                       | Result | Detection Limit | Reporting Limit                                     | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------|--------|-----------------|-----------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0954 - EPA 5035A                     |        |                 |                                                     |                  |          | Soil         |               |       |              |     |           |       |
| Blank (24D0954-BLK1)                          |        |                 | Prepared: 04/25/24 10:38   Analyzed: 04/25/24 12:40 |                  |          |              |               |       |              |     |           |       |
| <u>NWTPH-Gx (MS)</u>                          |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | ND     | ---             | 5.00                                                | mg/kg wet        | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 101 % |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 99 %            |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| LCS (24D0954-BS2)                             |        |                 | Prepared: 04/25/24 10:38   Analyzed: 04/25/24 12:15 |                  |          |              |               |       |              |     |           |       |
| <u>NWTPH-Gx (MS)</u>                          |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | 25.0   | ---             | 5.00                                                | mg/kg wet        | 50       | 25.0         | ---           | 100   | 80-120%      | --- | ---       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 98 %  |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 100 %           |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| Duplicate (24D0954-DUP1)                      |        |                 | Prepared: 04/24/24 13:30   Analyzed: 04/25/24 21:41 |                  |          |              |               |       |              |     |           | V-15  |
| <u>QC Source Sample: Non-SDG (A4D1512-05)</u> |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | 272    | ---             | 6.22                                                | mg/kg dry        | 50       | ---          | 295           | ---   | ---          | 8   | 30%       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 104 % |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 97 %            |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| Duplicate (24D0954-DUP2)                      |        |                 | Prepared: 04/24/24 13:30   Analyzed: 04/25/24 22:33 |                  |          |              |               |       |              |     |           | V-15  |
| <u>QC Source Sample: Non-SDG (A4D1512-06)</u> |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | 1900   | ---             | 122                                                 | mg/kg dry        | 1000     | ---          | 1830          | ---   | ---          | 4   | 30%       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 98 %  |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 96 %            |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |

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16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

## Report ID:

A4D1396 - 07 02 24 0825

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

| Analyte                                           | Result | Detection Limit | Reporting Limit | Units     | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------------|--------|-----------------|-----------------|-----------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0954 - EPA 5035A                         |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Soil                                              |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Blank (24D0954-BLK1)                              |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Prepared: 04/25/24 10:38 Analyzed: 04/25/24 12:40 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 5035A/8260D                                       |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Benzene                                           | ND     | ---             | 0.0100          | mg/kg wet | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Toluene                                           | ND     | ---             | 0.0500          | mg/kg wet | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Ethylbenzene                                      | ND     | ---             | 0.0250          | mg/kg wet | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Xylenes, total                                    | ND     | ---             | 0.0750          | mg/kg wet | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Recovery: 101 % Limits: 80-120 % Dilution: 1x     |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Toluene-d8 (Surr)                                 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 99 % 80-120 % "                                   |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                       |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 102 % 79-120 % "                                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| LCS (24D0954-BS1)                                 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Prepared: 04/25/24 10:38 Analyzed: 04/25/24 11:49 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 5035A/8260D                                       |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Benzene                                           | 1.01   | ---             | 0.0100          | mg/kg wet | 50       | 1.00         | ---           | 101   | 80-120%      | --- | ---       |       |
| Toluene                                           | 0.990  | ---             | 0.0500          | mg/kg wet | 50       | 1.00         | ---           | 99    | 80-120%      | --- | ---       |       |
| Ethylbenzene                                      | 1.02   | ---             | 0.0250          | mg/kg wet | 50       | 1.00         | ---           | 102   | 80-120%      | --- | ---       |       |
| Xylenes, total                                    | 3.09   | ---             | 0.0750          | mg/kg wet | 50       | 3.00         | ---           | 103   | 80-120%      | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Recovery: 102 % Limits: 80-120 % Dilution: 1x     |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Toluene-d8 (Surr)                                 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 99 % 80-120 % "                                   |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                       |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 101 % 79-120 % "                                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Duplicate (24D0954-DUP1)                          |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Prepared: 04/24/24 13:30 Analyzed: 04/25/24 21:41 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1512-05)            |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Benzene                                           | 0.0236 | ---             | 0.0124          | mg/kg dry | 50       | ---          | 0.0249        | ---   | ---          | 5   | 30%       |       |
| Toluene                                           | 1.57   | ---             | 0.0622          | mg/kg dry | 50       | ---          | 1.65          | ---   | ---          | 5   | 30%       |       |
| Ethylbenzene                                      | 1.01   | ---             | 0.0311          | mg/kg dry | 50       | ---          | 1.06          | ---   | ---          | 5   | 30%       |       |
| Xylenes, total                                    | 13.0   | ---             | 0.0933          | mg/kg dry | 50       | ---          | 13.8          | ---   | ---          | 6   | 30%       |       |
| Surr: 1,4-Difluorobenzene (Surr)                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Recovery: 104 % Limits: 80-120 % Dilution: 1x     |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Toluene-d8 (Surr)                                 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 98 % 80-120 % "                                   |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                       |        |                 |                 |           |          |              |               |       |              |     |           |       |
| 102 % 79-120 % "                                  |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Duplicate (24D0954-DUP2)                          |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Prepared: 04/24/24 13:30 Analyzed: 04/25/24 22:33 |        |                 |                 |           |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1512-06)            |        |                 |                 |           |          |              |               |       |              |     |           |       |
| Benzene                                           | ND     | ---             | 0.244           | mg/kg dry | 1000     | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Toluene                                           | 1.78   | ---             | 1.22            | mg/kg dry | 1000     | ---          | 1.77          | ---   | ---          | 0.7 | 30%       |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

| Analyte                                | Result | Detection Limit | Reporting Limit                                     | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|-----------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0954 - EPA 5035A              |        |                 |                                                     |                  |          | Soil         |               |       |              |     |           |       |
| Duplicate (24D0954-DUP2)               |        |                 | Prepared: 04/24/24 13:30   Analyzed: 04/25/24 22:33 |                  |          |              |               |       | V-15         |     |           |       |
| QC Source Sample: Non-SDG (A4D1512-06) |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Ethylbenzene                           | 5.19   | ---             | 0.609                                               | mg/kg dry        | 1000     | ---          | 5.13          | ---   | ---          | 1   | 30%       |       |
| Xylenes, total                         | 57.1   | ---             | 1.83                                                | mg/kg dry        | 1000     | ---          | 55.7          | ---   | ---          | 2   | 30%       |       |
| Surr: 1,4-Difluorobenzene (Surr)       |        | Recovery: 104 % |                                                     | Limits: 80-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| Toluene-d8 (Surr)                      |        | 98 %            |                                                     | 80-120 %         |          | "            |               |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)            |        | 104 %           |                                                     | 79-120 %         |          | "            |               |       |              |     |           |       |
|                                        |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Matrix Spike (24D0954-MS1)             |        |                 | Prepared: 04/22/24 15:00   Analyzed: 04/25/24 18:41 |                  |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1453-05) |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| 5035A/8260D                            |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Benzene                                | 1.66   | ---             | 0.0154                                              | mg/kg dry        | 50       | 1.54         | ND            | 108   | 77-121%      | --- | ---       |       |
| Toluene                                | 1.65   | ---             | 0.0771                                              | mg/kg dry        | 50       | 1.54         | ND            | 107   | 77-121%      | --- | ---       |       |
| Ethylbenzene                           | 1.69   | ---             | 0.0386                                              | mg/kg dry        | 50       | 1.54         | ND            | 110   | 76-122%      | --- | ---       |       |
| Xylenes, total                         | 5.13   | ---             | 0.116                                               | mg/kg dry        | 50       | 4.63         | ND            | 111   | 78-124%      | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)       |        | Recovery: 100 % |                                                     | Limits: 80-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| Toluene-d8 (Surr)                      |        | 99 %            |                                                     | 80-120 %         |          | "            |               |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)            |        | 100 %           |                                                     | 79-120 %         |          | "            |               |       |              |     |           |       |

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ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                                   | Result | Detection Limit | Reporting Limit                                     | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------------------|--------|-----------------|-----------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0823 - EPA 3546                  |        |                 |                                                     |                  |          | Soil         |               |       |              |     |           |       |
| Blank (24D0823-BLK1)                      |        |                 | Prepared: 04/23/24 04:12   Analyzed: 04/23/24 16:00 |                  |          |              |               |       |              |     |           | C-07  |
| EPA 8082A                                 |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Aroclor 1016                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1221                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1232                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1242                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1248                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1254                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1260                              | ND     | ---             | 0.0100                                              | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: Decachlorobiphenyl (Surr)           |        | Recovery: 102 % |                                                     | Limits: 60-125 % |          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24D0823-BS1)                         |        |                 | Prepared: 04/23/24 04:12   Analyzed: 04/23/24 16:18 |                  |          |              |               |       |              |     |           | C-07  |
| EPA 8082A                                 |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Aroclor 1016                              | 0.203  | ---             | 0.0100                                              | mg/kg wet        | 1        | 0.250        | ---           | 81    | 47-134%      | --- | ---       |       |
| Aroclor 1260                              | 0.222  | ---             | 0.0100                                              | mg/kg wet        | 1        | 0.250        | ---           | 89    | 53-140%      | --- | ---       |       |
| Surr: Decachlorobiphenyl (Surr)           |        | Recovery: 99 %  |                                                     | Limits: 60-125 % |          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24D0823-DUP1)                  |        |                 | Prepared: 04/23/24 04:12   Analyzed: 04/23/24 17:11 |                  |          |              |               |       |              |     |           | C-07  |
| QC Source Sample: Non-SDG (A4D1186-01)    |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Aroclor 1016                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1221                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1232                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1242                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1248                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1254                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1260                              | ND     | ---             | 0.00932                                             | mg/kg dry        | 1        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: Decachlorobiphenyl (Surr)           |        | Recovery: 99 %  |                                                     | Limits: 60-125 % |          | Dilution: 1x |               |       |              |     |           |       |
| Matrix Spike (24D0823-MS1)                |        |                 | Prepared: 04/23/24 04:12   Analyzed: 04/23/24 23:05 |                  |          |              |               |       |              |     |           | C-07  |
| QC Source Sample: HA-3:2-2.5 (A4D1396-05) |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| EPA 8082A                                 |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Aroclor 1016                              | 0.200  | ---             | 0.0100                                              | mg/kg dry        | 1        | 0.250        | ND            | 80    | 47-134%      | --- | ---       |       |
| Aroclor 1260                              | 0.479  | ---             | 0.0100                                              | mg/kg dry        | 1        | 0.250        | 0.297         | 73    | 53-140%      | --- | ---       |       |
| Surr: Decachlorobiphenyl (Surr)           |        | Recovery: 99 %  |                                                     | Limits: 60-125 % |          | Dilution: 1x |               |       |              |     |           |       |

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ANALYTICAL REPORT

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ORELAP ID: OR100062

GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: 6909-A

Project Number: 6909-A

Project Manager: Greg Martin

Report ID:

A4D1396 - 07 02 24 0825

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

| Analyte                  | Result | Detection<br>Limit | Reporting<br>Limit | Units | Dilution | Spike<br>Amount | Source<br>Result | % REC | % REC<br>Limits | RPD | RPD<br>Limit | Notes |
|--------------------------|--------|--------------------|--------------------|-------|----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
| Batch 24D0823 - EPA 3546 |        |                    |                    |       |          |                 | Soil             |       |                 |     |              |       |

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## Report ID:

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                       | Result | Detection Limit | Reporting Limit                                      | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|--------|-----------------|------------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D1133 - EPA 3546      |        |                 |                                                      |                  |          | Soil         |               |       |              |     |           |       |
| Blank (24D1133-BLK1)          |        |                 | Prepared: 04/30/24 10:11    Analyzed: 04/30/24 15:47 |                  |          |              |               |       |              |     |           |       |
| EPA 8270E SIM                 |        |                 |                                                      |                  |          |              |               |       |              |     |           |       |
| Acenaphthene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Acenaphthylene                | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Anthracene                    | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benz(a)anthracene             | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(a)pyrene                | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(b)fluoranthene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(k)fluoranthene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(g,h,i)perylene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Chrysene                      | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Dibenz(a,h)anthracene         | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Fluoranthene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Fluorene                      | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene        | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| 1-Methylnaphthalene           | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| 2-Methylnaphthalene           | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Naphthalene                   | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Phenanthrene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Pyrene                        | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Dibenzofuran                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr) |        | Recovery: 89 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)        |        | 79 %            |                                                      | 54-127 %         |          | "            |               |       |              |     |           |       |

## LCS (24D1133-BS1)

Prepared: 04/30/24 10:11 Analyzed: 04/30/24 16:12

## EPA 8270E SIM

|                      |       |     |        |           |   |       |     |    |         |     |     |
|----------------------|-------|-----|--------|-----------|---|-------|-----|----|---------|-----|-----|
| Acenaphthene         | 0.725 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 91 | 40-123% | --- | --- |
| Acenaphthylene       | 0.720 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 90 | 32-132% | --- | --- |
| Anthracene           | 0.707 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 88 | 47-123% | --- | --- |
| Benz(a)anthracene    | 0.694 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 87 | 49-126% | --- | --- |
| Benzo(a)pyrene       | 0.740 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 92 | 45-129% | --- | --- |
| Benzo(b)fluoranthene | 0.716 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 90 | 45-132% | --- | --- |
| Benzo(k)fluoranthene | 0.749 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 94 | 47-132% | --- | --- |
| Benzo(g,h,i)perylene | 0.638 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 80 | 43-134% | --- | --- |
| Chrysene             | 0.771 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 96 | 50-124% | --- | --- |

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## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                                | Result | Detection Limit | Reporting Limit | Units                    | Dilution | Spike Amount             | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|-----------------|--------------------------|----------|--------------------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D1133 - EPA 3546               |        |                 |                 |                          |          | Soil                     |               |       |              |     |           |       |
| LCS (24D1133-BS1)                      |        |                 |                 | Prepared: 04/30/24 10:11 |          | Analyzed: 04/30/24 16:12 |               |       |              |     |           |       |
| Dibenz(a,h)anthracene                  | 0.739  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 92    | 45-134%      | --- | ---       |       |
| Fluoranthene                           | 0.775  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 97    | 50-127%      | --- | ---       |       |
| Fluorene                               | 0.699  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 87    | 43-125%      | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene                 | 0.706  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 88    | 45-133%      | --- | ---       |       |
| 1-Methylnaphthalene                    | 0.685  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 86    | 40-120%      | --- | ---       |       |
| 2-Methylnaphthalene                    | 0.700  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 87    | 38-122%      | --- | ---       |       |
| Naphthalene                            | 0.718  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 90    | 35-123%      | --- | ---       |       |
| Phenanthrene                           | 0.707  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 88    | 50-121%      | --- | ---       |       |
| Pyrene                                 | 0.790  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 99    | 47-127%      | --- | ---       |       |
| Dibenzofuran                           | 0.706  | ---             | 0.0100          | mg/kg wet                | 1        | 0.800                    | ---           | 88    | 44-120%      | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr)          |        | Recovery: 92 %  |                 | Limits: 44-120 %         |          | Dilution: 1x             |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)                 |        | 79 %            |                 | 54-127 %                 |          | "                        |               |       |              |     |           |       |
| Duplicate (24D1133-DUP1)               |        |                 |                 | Prepared: 04/30/24 10:11 |          | Analyzed: 04/30/24 17:03 |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1379-01) |        |                 |                 |                          |          |                          |               |       |              |     |           |       |
| Acenaphthene                           | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Acenaphthylene                         | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Anthracene                             | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Benz(a)anthracene                      | 0.0139 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Benzo(a)pyrene                         | 0.0127 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Benzo(b)fluoranthene                   | 0.0157 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Benzo(k)fluoranthene                   | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Benzo(g,h,i)perylene                   | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Chrysene                               | 0.0125 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Dibenz(a,h)anthracene                  | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Fluoranthene                           | 0.0272 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Fluorene                               | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Indeno(1,2,3-cd)pyrene                 | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| 1-Methylnaphthalene                    | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| 2-Methylnaphthalene                    | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Naphthalene                            | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |
| Phenanthrene                           | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Pyrene                                 | 0.0259 | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Dibenzofuran                           | ND     | ---             | 0.0115          | mg/kg dry                | 1        | ---                      | ND            | ---   | ---          | --- | 30%       |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                                | Result | Detection Limit | Reporting Limit                                      | Units            | Dilution | Spike Amount                                         | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|------------------------------------------------------|------------------|----------|------------------------------------------------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D1133 - EPA 3546               |        |                 |                                                      |                  |          | Soil                                                 |               |       |              |     |           |       |
| Duplicate (24D1133-DUP1)               |        |                 | Prepared: 04/30/24 10:11    Analyzed: 04/30/24 17:03 |                  |          |                                                      |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1379-01) |        |                 |                                                      |                  |          |                                                      |               |       |              |     |           |       |
| Surr: 2-Fluorobiphenyl (Surr)          |        | Recovery: 74 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x                                         |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)                 |        | 66 %            |                                                      | 54-127 %         |          | "                                                    |               |       |              |     |           |       |
| Matrix Spike (24D1133-MS1)             |        |                 |                                                      |                  |          | Prepared: 04/30/24 10:11    Analyzed: 04/30/24 17:53 |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1531-09) |        |                 |                                                      |                  |          |                                                      |               |       |              |     |           |       |
| EPA 8270E SIM                          |        |                 |                                                      |                  |          |                                                      |               |       |              |     |           |       |
| Acenaphthene                           | 0.714  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 85    | 40-123%      | --- | ---       |       |
| Acenaphthylene                         | 0.706  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 84    | 32-132%      | --- | ---       |       |
| Anthracene                             | 0.688  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 81    | 47-123%      | --- | ---       |       |
| Benz(a)anthracene                      | 0.680  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 81    | 49-126%      | --- | ---       |       |
| Benzo(a)pyrene                         | 0.711  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 84    | 45-129%      | --- | ---       |       |
| Benzo(b)fluoranthene                   | 0.680  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 81    | 45-132%      | --- | ---       |       |
| Benzo(k)fluoranthene                   | 0.718  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 85    | 47-132%      | --- | ---       |       |
| Benzo(g,h,i)perylene                   | 0.609  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 72    | 43-134%      | --- | ---       |       |
| Chrysene                               | 0.747  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 88    | 50-124%      | --- | ---       |       |
| Dibenz(a,h)anthracene                  | 0.736  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 87    | 45-134%      | --- | ---       |       |
| Fluoranthene                           | 0.762  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 90    | 50-127%      | --- | ---       |       |
| Fluorene                               | 0.692  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 82    | 43-125%      | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene                 | 0.680  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 80    | 45-133%      | --- | ---       |       |
| 1-Methylnaphthalene                    | 0.677  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 80    | 40-120%      | --- | ---       |       |
| 2-Methylnaphthalene                    | 0.689  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 82    | 38-122%      | --- | ---       |       |
| Naphthalene                            | 0.706  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 84    | 35-123%      | --- | ---       |       |
| Phenanthrene                           | 0.683  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 81    | 50-121%      | --- | ---       |       |
| Pyrene                                 | 0.768  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 91    | 47-127%      | --- | ---       |       |
| Dibenzofuran                           | 0.683  | ---             | 0.0106                                               | mg/kg dry        | 1        | 0.845                                                | ND            | 81    | 44-120%      | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr)          |        | Recovery: 82 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x                                         |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)                 |        | 73 %            |                                                      | 54-127 %         |          | "                                                    |               |       |              |     |           |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

| Analyte                                           | Result      | Detection Limit | Reporting Limit | Units     | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD       | RPD Limit  | Notes |
|---------------------------------------------------|-------------|-----------------|-----------------|-----------|----------|--------------|---------------|-------|--------------|-----------|------------|-------|
| <b>Batch 24D1084 - EPA 3051A</b>                  |             |                 |                 |           |          |              |               |       |              |           |            |       |
| <b>Soil</b>                                       |             |                 |                 |           |          |              |               |       |              |           |            |       |
| <b>Blank (24D1084-BLK1)</b>                       |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Prepared: 04/29/24 11:31 Analyzed: 04/30/24 05:29 |             |                 |                 |           |          |              |               |       |              |           |            |       |
| <b>EPA 6020B</b>                                  |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Arsenic                                           | ND          | ---             | 1.00            | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Barium                                            | ND          | ---             | 1.00            | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Cadmium                                           | ND          | ---             | 0.200           | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Chromium                                          | ND          | ---             | 1.00            | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Lead                                              | ND          | ---             | 0.200           | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Mercury                                           | ND          | ---             | 0.0800          | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Selenium                                          | ND          | ---             | 1.00            | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| Silver                                            | ND          | ---             | 0.200           | mg/kg wet | 10       | ---          | ---           | ---   | ---          | ---       | ---        |       |
| <b>LCS (24D1084-BS1)</b>                          |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Prepared: 04/29/24 11:31 Analyzed: 04/30/24 05:41 |             |                 |                 |           |          |              |               |       |              |           |            |       |
| <b>EPA 6020B</b>                                  |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Arsenic                                           | 47.7        | ---             | 1.00            | mg/kg wet | 10       | 50.0         | ---           | 95    | 80-120%      | ---       | ---        |       |
| Barium                                            | 50.7        | ---             | 1.00            | mg/kg wet | 10       | 50.0         | ---           | 101   | 80-120%      | ---       | ---        |       |
| Cadmium                                           | 49.3        | ---             | 0.200           | mg/kg wet | 10       | 50.0         | ---           | 99    | 80-120%      | ---       | ---        |       |
| Chromium                                          | 51.5        | ---             | 1.00            | mg/kg wet | 10       | 50.0         | ---           | 103   | 80-120%      | ---       | ---        |       |
| Lead                                              | 51.7        | ---             | 0.200           | mg/kg wet | 10       | 50.0         | ---           | 103   | 80-120%      | ---       | ---        |       |
| Mercury                                           | 1.04        | ---             | 0.0800          | mg/kg wet | 10       | 1.00         | ---           | 104   | 80-120%      | ---       | ---        |       |
| Selenium                                          | 24.6        | ---             | 1.00            | mg/kg wet | 10       | 25.0         | ---           | 98    | 80-120%      | ---       | ---        |       |
| Silver                                            | 26.4        | ---             | 0.200           | mg/kg wet | 10       | 25.0         | ---           | 106   | 80-120%      | ---       | ---        |       |
| <b>Duplicate (24D1084-DUP1)</b>                   |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Prepared: 04/29/24 11:31 Analyzed: 04/30/24 05:53 |             |                 |                 |           |          |              |               |       |              |           |            |       |
| <b>QC Source Sample: Non-SDG (A4D1379-02)</b>     |             |                 |                 |           |          |              |               |       |              |           |            |       |
| Arsenic                                           | <b>1.80</b> | ---             | 1.31            | mg/kg dry | 10       | ---          | 2.33          | ---   | ---          | <b>25</b> | <b>20%</b> | Q-05  |
| Barium                                            | <b>181</b>  | ---             | 1.31            | mg/kg dry | 10       | ---          | 258           | ---   | ---          | <b>35</b> | <b>20%</b> | Q-04  |
| Cadmium                                           | ND          | ---             | 0.262           | mg/kg dry | 10       | ---          | ND            | ---   | ---          | ---       | 20%        |       |
| Chromium                                          | <b>8.63</b> | ---             | 1.31            | mg/kg dry | 10       | ---          | 7.92          | ---   | ---          | <b>9</b>  | 20%        |       |
| Lead                                              | <b>9.18</b> | ---             | 0.262           | mg/kg dry | 10       | ---          | 13.2          | ---   | ---          | <b>36</b> | <b>20%</b> | Q-04  |
| Mercury                                           | ND          | ---             | 0.105           | mg/kg dry | 10       | ---          | ND            | ---   | ---          | ---       | 20%        |       |
| Selenium                                          | ND          | ---             | 1.31            | mg/kg dry | 10       | ---          | ND            | ---   | ---          | ---       | 20%        |       |
| Silver                                            | ND          | ---             | 0.262           | mg/kg dry | 10       | ---          | ND            | ---   | ---          | ---       | 20%        |       |

**Matrix Spike (24D1084-MS1)**

Prepared: 04/29/24 11:31 Analyzed: 04/30/24 05:59

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## ANALYTICAL REPORT

Apex Laboratories, LLC

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units     | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|-----------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D1084 - EPA 3051A              |        |                 |                          |           |                          | Soil         |               |       |              |     |           |       |
| Matrix Spike (24D1084-MS1)             |        |                 | Prepared: 04/29/24 11:31 |           | Analyzed: 04/30/24 05:59 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1379-02) |        |                 |                          |           |                          |              |               |       |              |     |           |       |
| EPA 6020B                              |        |                 |                          |           |                          |              |               |       |              |     |           |       |
| Arsenic                                | 60.7   | ---             | 1.29                     | mg/kg dry | 10                       | 64.3         | 2.33          | 91    | 75-125%      | --- | ---       | Q-04  |
| Barium                                 | 255    | ---             | 1.29                     | mg/kg dry | 10                       | 64.3         | 258           | -4    | 75-125%      | --- | ---       |       |
| Cadmium                                | 61.7   | ---             | 0.257                    | mg/kg dry | 10                       | 64.3         | ND            | 96    | 75-125%      | --- | ---       |       |
| Chromium                               | 74.0   | ---             | 1.29                     | mg/kg dry | 10                       | 64.3         | 7.92          | 103   | 75-125%      | --- | ---       |       |
| Lead                                   | 74.0   | ---             | 0.257                    | mg/kg dry | 10                       | 64.3         | 13.2          | 95    | 75-125%      | --- | ---       |       |
| Mercury                                | 1.19   | ---             | 0.103                    | mg/kg dry | 10                       | 1.29         | ND            | 92    | 75-125%      | --- | ---       |       |
| Selenium                               | 29.9   | ---             | 1.29                     | mg/kg dry | 10                       | 32.1         | ND            | 93    | 75-125%      | --- | ---       |       |
| Silver                                 | 31.1   | ---             | 0.257                    | mg/kg dry | 10                       | 32.1         | ND            | 97    | 75-125%      | --- | ---       |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin**

## Report ID:

A4D1396 - 07 02 24 0825

## QUALITY CONTROL (QC) SAMPLE RESULTS

## TCLP Metals by EPA 6020B (ICPMS)

| Analyte                                     | Result | Detection Limit | Reporting Limit          | Units | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------------|--------|-----------------|--------------------------|-------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24E0922 - EPA 1311/3015A              |        |                 |                          |       |                          | Soil         |               |       |              |     |           |       |
| Blank (24E0922-BLK1)                        |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 20:03 |              |               |       |              |     |           |       |
| 1311/6020B                                  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | ND     | ---             | 0.100                    | mg/L  | 10                       | ---          | ---           | ---   | ---          | --- | ---       | TCLP  |
| Lead                                        | ND     | ---             | 0.0500                   | mg/L  | 10                       | ---          | ---           | ---   | ---          | --- | ---       | TCLP  |
| LCS (24E0922-BS1)                           |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 20:09 |              |               |       |              |     |           |       |
| 1311/6020B                                  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | 5.24   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ---           | 105   | 80-120%      | --- | ---       | TCLP  |
| Lead                                        | 5.13   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ---           | 103   | 80-120%      | --- | ---       | TCLP  |
| Duplicate (24E0922-DUP1)                    |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 20:20 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1395-03)      |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | ND     | ---             | 0.100                    | mg/L  | 10                       | ---          | ND            | ---   | ---          | --- | 20%       |       |
| Lead                                        | ND     | ---             | 0.0500                   | mg/L  | 10                       | ---          | 0.0538        | ---   | ---          | *** | 20%       |       |
| Matrix Spike (24E0922-MS1)                  |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 20:31 |              |               |       |              |     |           |       |
| QC Source Sample: HA-1:0.5-1.5 (A4D1396-01) |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| 1311/6020B                                  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | 5.22   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 104   | 50-150%      | --- | ---       |       |
| Lead                                        | 5.31   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | 0.0940        | 104   | 50-150%      | --- | ---       |       |
| Matrix Spike (24E0922-MS2)                  |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 21:05 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4E1175-13)      |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| 1311/6020B                                  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | 5.31   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 106   | 50-150%      | --- | ---       |       |
| Lead                                        | 5.39   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | 0.0856        | 106   | 50-150%      | --- | ---       |       |
| Matrix Spike (24E0922-MS3)                  |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 21:39 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4E1499-01)      |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| 1311/6020B                                  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                    | 5.50   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 110   | 50-150%      | --- | ---       |       |
| Lead                                        | 5.65   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ND            | 113   | 50-150%      | --- | ---       |       |

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ANALYTICAL REPORT

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6700 S.W. Sandburg Street

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503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

**QUALITY CONTROL (QC) SAMPLE RESULTS**

**TCLP Metals by EPA 6020B (ICPMS)**

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|-------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24E0922 - EPA 1311/3015A         |        |                 |                          |       |                          |              | Soil          |       |              |     |           |       |
| Matrix Spike (24E0922-MS4)             |        |                 | Prepared: 05/24/24 13:11 |       | Analyzed: 05/24/24 22:02 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4E1500-01) |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| 1311/6020B                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                               | 5.15   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 103   | 50-150%      | --- | ---       |       |
| Lead                                   | 5.12   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ND            | 102   | 50-150%      | --- | ---       |       |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825****QUALITY CONTROL (QC) SAMPLE RESULTS****Percent Dry Weight**

| Analyte                                          | Result | Detection Limit | Reporting Limit                                      | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------------------|--------|-----------------|------------------------------------------------------|-------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24D0786 - Total Solids (Dry Weight) - 2022 |        |                 |                                                      |       |          |              | Soil          |       |              |     |           |       |
| Duplicate (24D0786-DUP1)                         |        |                 | Prepared: 04/22/24 09:47    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: HA-1:0.5-1.5 (A4D1396-01)      |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 93.8   | ---             | 1.00                                                 | %     | 1        | ---          | 94.4          | ---   | ---          | 0.6 | 10%       |       |
| Duplicate (24D0786-DUP2)                         |        |                 | Prepared: 04/22/24 09:47    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: HA-2:0.5-1.5 (A4D1396-02)      |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 90.3   | ---             | 1.00                                                 | %     | 1        | ---          | 90.2          | ---   | ---          | 0.2 | 10%       |       |
| Duplicate (24D0786-DUP3)                         |        |                 | Prepared: 04/22/24 09:47    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: HA-2:4-4.5 (A4D1396-03)        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 80.9   | ---             | 1.00                                                 | %     | 1        | ---          | 81.9          | ---   | ---          | 1   | 10%       |       |
| Duplicate (24D0786-DUP4)                         |        |                 | Prepared: 04/22/24 09:47    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: HA-3:0.5-1.5 (A4D1396-04)      |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 94.0   | ---             | 1.00                                                 | %     | 1        | ---          | 92.9          | ---   | ---          | 1   | 10%       |       |
| Duplicate (24D0786-DUP5)                         |        |                 | Prepared: 04/22/24 09:47    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: HA-3:2-2.5 (A4D1396-05)        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 88.5   | ---             | 1.00                                                 | %     | 1        | ---          | 89.2          | ---   | ---          | 0.8 | 10%       |       |
| Duplicate (24D0786-DUP6)                         |        |                 | Prepared: 04/22/24 18:24    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1454-01)           |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 83.1   | ---             | 1.00                                                 | %     | 1        | ---          | 81.3          | ---   | ---          | 2   | 10%       |       |
| Duplicate (24D0786-DUP7)                         |        |                 | Prepared: 04/22/24 18:24    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4D1455-01)           |        |                 |                                                      |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 92.4   | ---             | 1.00                                                 | %     | 1        | ---          | 92.1          | ---   | ---          | 0.3 | 10%       |       |

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**GRI**  
16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **6909-A**  
Project Number: **6909-A**  
Project Manager: **Greg Martin**

**Report ID:**  
**A4D1396 - 07 02 24 0825**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

| Analyte                                          | Result | Detection Limit | Reporting Limit                                      | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD  | RPD Limit | Notes |
|--------------------------------------------------|--------|-----------------|------------------------------------------------------|-------|----------|--------------|---------------|-------|--------------|------|-----------|-------|
| Batch 24D0786 - Total Solids (Dry Weight) - 2022 |        |                 |                                                      |       |          |              | Soil          |       |              |      |           |       |
| Duplicate (24D0786-DUP8)                         |        |                 | Prepared: 04/22/24 18:24    Analyzed: 04/23/24 07:15 |       |          |              |               |       |              |      |           |       |
| QC Source Sample: Non-SDG (A4D1456-01)           |        |                 |                                                      |       |          |              |               |       |              |      |           |       |
| % Solids                                         | 79.3   | ---             | 1.00                                                 | %     | 1        | ---          | 79.4          | ---   | ---          | 0.06 | 10%       |       |

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**Prep: EPA 3546 (Fuels)

| Lab Number            | Matrix | Method   | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24D0881</u> |        |          |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | NWTPH-Dx | 04/17/24 15:44 | 04/24/24 05:51 | 11.11g/5mL              | 10g/5mL                  | 0.90              |
| A4D1396-03            | Soil   | NWTPH-Dx | 04/17/24 13:45 | 04/24/24 05:51 | 11.33g/5mL              | 10g/5mL                  | 0.88              |
| A4D1396-04            | Soil   | NWTPH-Dx | 04/17/24 14:34 | 04/24/24 05:51 | 11.41g/5mL              | 10g/5mL                  | 0.88              |
| A4D1396-05            | Soil   | NWTPH-Dx | 04/17/24 15:07 | 04/24/24 05:51 | 11.02g/5mL              | 10g/5mL                  | 0.91              |
| <u>Batch: 24D1134</u> |        |          |                |                |                         |                          |                   |
| A4D1396-02RE1         | Soil   | NWTPH-Dx | 04/17/24 12:56 | 04/30/24 10:13 | 11.53g/5mL              | 10g/5mL                  | 0.87              |

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**Prep: EPA 5035A

| Lab Number            | Matrix | Method        | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|---------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24D0954</u> |        |               |                |                |                         |                          |                   |
| A4D1396-02            | Soil   | NWTPH-Gx (MS) | 04/17/24 12:56 | 04/17/24 12:56 | 7.47g/5mL               | 5g/5mL                   | 0.67              |

**BTEX Compounds by EPA 8260D**Prep: EPA 5035A

| Lab Number            | Matrix | Method      | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24D0954</u> |        |             |                |                |                         |                          |                   |
| A4D1396-02            | Soil   | 5035A/8260D | 04/17/24 12:56 | 04/17/24 12:56 | 7.47g/5mL               | 5g/5mL                   | 0.67              |

**Polychlorinated Biphenyls by EPA 8082A**Prep: EPA 3546

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24D0823</u> |        |           |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | EPA 8082A | 04/17/24 15:44 | 04/23/24 04:12 | 11.84g/5mL              | 10g/5mL                  | 0.85              |
| A4D1396-02            | Soil   | EPA 8082A | 04/17/24 12:56 | 04/23/24 04:12 | 11.11g/5mL              | 10g/5mL                  | 0.90              |
| A4D1396-03            | Soil   | EPA 8082A | 04/17/24 13:45 | 04/23/24 04:12 | 11.08g/5mL              | 10g/5mL                  | 0.90              |
| A4D1396-04            | Soil   | EPA 8082A | 04/17/24 14:34 | 04/23/24 04:12 | 11.43g/5mL              | 10g/5mL                  | 0.88              |
| A4D1396-05            | Soil   | EPA 8082A | 04/17/24 15:07 | 04/23/24 04:12 | 11.15g/5mL              | 10g/5mL                  | 0.90              |

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)**

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825****SAMPLE PREPARATION INFORMATION****Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)****Prep: EPA 3546**

| Lab Number            | Matrix | Method        | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|---------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24D1133</b> |        |               |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | EPA 8270E SIM | 04/17/24 15:44 | 04/30/24 10:11 | 11.04g/5mL              | 10g/5mL                  | 0.91              |
| A4D1396-02            | Soil   | EPA 8270E SIM | 04/17/24 12:56 | 04/30/24 10:11 | 11.59g/5mL              | 10g/5mL                  | 0.86              |
| A4D1396-03            | Soil   | EPA 8270E SIM | 04/17/24 13:45 | 04/30/24 10:11 | 11.32g/5mL              | 10g/5mL                  | 0.88              |
| A4D1396-04            | Soil   | EPA 8270E SIM | 04/17/24 14:34 | 04/30/24 10:11 | 11.79g/5mL              | 10g/5mL                  | 0.85              |
| A4D1396-05RE1         | Soil   | EPA 8270E SIM | 04/17/24 15:07 | 04/30/24 10:11 | 11.1g/5mL               | 10g/5mL                  | 0.90              |

**Total Metals by EPA 6020B (ICPMS)****Prep: EPA 3051A**

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24D1084</b> |        |           |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | EPA 6020B | 04/17/24 15:44 | 04/29/24 11:31 | 0.488g/50mL             | 0.5g/50mL                | 1.02              |
| A4D1396-02            | Soil   | EPA 6020B | 04/17/24 12:56 | 04/29/24 11:31 | 0.456g/50mL             | 0.5g/50mL                | 1.10              |
| A4D1396-03            | Soil   | EPA 6020B | 04/17/24 13:45 | 04/29/24 11:31 | 0.478g/50mL             | 0.5g/50mL                | 1.05              |
| A4D1396-04            | Soil   | EPA 6020B | 04/17/24 14:34 | 04/29/24 11:31 | 0.465g/50mL             | 0.5g/50mL                | 1.08              |
| A4D1396-05            | Soil   | EPA 6020B | 04/17/24 15:07 | 04/29/24 11:31 | 0.49g/50mL              | 0.5g/50mL                | 1.02              |

**TCLP Metals by EPA 6020B (ICPMS)****Prep: EPA 1311/3015A**

| Lab Number            | Matrix | Method     | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24E0922</b> |        |            |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | 1311/6020B | 04/17/24 15:44 | 05/24/24 13:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4D1396-02            | Soil   | 1311/6020B | 04/17/24 12:56 | 05/24/24 13:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4D1396-05            | Soil   | 1311/6020B | 04/17/24 15:07 | 05/24/24 13:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |

**Percent Dry Weight****Prep: Total Solids (Dry Weight) - 2022**

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24D0786</b> |        |           |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | EPA 8000D | 04/17/24 15:44 | 04/22/24 09:47 |                         |                          | NA                |
| A4D1396-02            | Soil   | EPA 8000D | 04/17/24 12:56 | 04/22/24 09:47 |                         |                          | NA                |
| A4D1396-03            | Soil   | EPA 8000D | 04/17/24 13:45 | 04/22/24 09:47 |                         |                          | NA                |
| A4D1396-04            | Soil   | EPA 8000D | 04/17/24 14:34 | 04/22/24 09:47 |                         |                          | NA                |
| A4D1396-05            | Soil   | EPA 8000D | 04/17/24 15:07 | 04/22/24 09:47 |                         |                          | NA                |

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

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**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4D1396 - 07 02 24 0825**

**SAMPLE PREPARATION INFORMATION**

Percent Dry Weight

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

| Lab Number            | Matrix | Method   | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24E0845</u> |        |          |                |                |                         |                          |                   |
| A4D1396-01            | Soil   | EPA 1311 | 04/17/24 15:44 | 05/23/24 14:15 | 100g/2000g              | 100g/2000g               | NA                |
| A4D1396-02            | Soil   | EPA 1311 | 04/17/24 12:56 | 05/23/24 14:15 | 100g/2000g              | 100g/2000g               | NA                |
| A4D1396-05            | Soil   | EPA 1311 | 04/17/24 15:07 | 05/23/24 14:15 | 100g/2000g              | 100g/2000g               | NA                |

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Project: **6909-A**

Project Number: **6909-A**

Project Manager: **Greg Martin**

**Report ID:**

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## QUALIFIER DEFINITIONS

### Client Sample and Quality Control (QC) Sample Qualifier Definitions:

#### Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- F-17** No fuel pattern detected. The Diesel result represents carbon range C10 to C25, and the Oil result represents >C25 to C40.
- M-05** Estimated results. Peak separation for structural isomers is insufficient for accurate quantification.
- P-12** Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- S-01** Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 24E0845.
- V-15** Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between  $\frac{1}{2}$  the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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### LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
|--------|----------|--------|---------|--------|---------------|
|--------|----------|--------|---------|--------|---------------|

All reported analytes are included in Apex Laboratories' current ORELAP scope.

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Darwin Thomas, Business Development Director

GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: 6909-A

Project Number: 6909-A

Project Manager: Greg Martin

Report ID:

A4D1396 - 07 02 24 0825

| APEX LABS                                                           |                               | CHAIN OF CUSTODY     |                   | Lab # A4D1396 coc 1 of 1 |                         |          |           |                |                |                     |               |                          |           |                 |                 |                      |                                                                                  |                  |                 |             |                |  |
|---------------------------------------------------------------------|-------------------------------|----------------------|-------------------|--------------------------|-------------------------|----------|-----------|----------------|----------------|---------------------|---------------|--------------------------|-----------|-----------------|-----------------|----------------------|----------------------------------------------------------------------------------|------------------|-----------------|-------------|----------------|--|
| Company: GRI                                                        | Project Mgr: G. Martin        | Project Name: 6909-A | Project #: 6909-A | Phone: 503-686-0487      | Email: g.martin@gri.com |          |           |                |                |                     |               |                          |           |                 |                 |                      |                                                                                  |                  |                 |             |                |  |
| Address: 16520 SW Upper Boones Ferry Rd, Suite 100 Tigard, OR 97224 |                               |                      |                   |                          |                         |          |           |                |                |                     |               |                          |           |                 |                 |                      |                                                                                  |                  |                 |             |                |  |
| Sampled by: DBV/AEH/TEH                                             | Site Location: OR WA CA AK ID |                      |                   |                          |                         |          |           |                |                |                     |               |                          |           |                 |                 |                      |                                                                                  |                  |                 |             |                |  |
| SAMPLE ID                                                           | DATE                          | TIME                 | MATRIX            | # OF CONTAINERS          | NWTPH-HCID              | NWTPH-Gx | 8260 BTEX | 8260 RBDM VOCs | 8260 Halo VOCs | 8260 VOCs Full List | 8270 SIM PAHs | 8270 Semi-Vols Full List | 8082 PCBs | 8081 Pesticides | RCRA Metals (8) | Priority Metals (13) | AL, Sb, As, Ba, Be, Cd, Cr, Cu, Fe, Pb, Hg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn | TOTAL DISS. TCLP | TCLP Metals (8) | Hold Sample | Frozen Archive |  |
| HA-1: 0.5-1.5                                                       | 4/17                          | 1544                 | SS                | 4                        |                         | X        |           |                |                | X                   | X             |                          | X         |                 | X               |                      |                                                                                  |                  |                 |             |                |  |
| HA-2: 0.5-1.5                                                       | 4/17                          | 1256                 | SS                | 4                        |                         | X        |           |                |                | X                   | X             |                          | X         |                 | X               |                      |                                                                                  |                  |                 |             |                |  |
| HA-2: 4-4.5                                                         | 4/17                          | 1345                 | SS                | 4                        |                         | X        |           |                |                | X                   | X             |                          | X         |                 | X               |                      |                                                                                  |                  |                 |             |                |  |
| HA-3: 0.5-1.5                                                       | 4/17                          | 1434                 | SS                | 4                        |                         | X        |           |                |                | X                   | X             |                          | X         |                 | X               |                      |                                                                                  |                  |                 |             |                |  |
| HA-3: 2-2.5                                                         | 4/17                          | 1507                 | SS                | 4                        |                         | X        |           |                |                | X                   | X             |                          | X         |                 | X               |                      |                                                                                  |                  |                 |             |                |  |

Standard Turn Around Time (TAT) = 10 Business Days

TAT Requested (circle): 1 Day 2 Day 3 Day 5 Day Standard Other: \_\_\_\_\_

SPECIAL INSTRUCTIONS: Bill to GRI - AP 2 GRI.com

| RELINQUISHED BY:              |                | RECEIVED BY:                  |               |
|-------------------------------|----------------|-------------------------------|---------------|
| Signature: <i>[Signature]</i> | Date: 04/18/24 | Signature: <i>[Signature]</i> | Date: 4/18/24 |
| Printed Name: Darlene Verdugo | Time: 230      | Printed Name: Alysa Wilbur    | Time: 1430    |
| Company: GRI                  |                | Company: Apex                 |               |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **6909-A**Project Number: **6909-A**Project Manager: **Greg Martin****Report ID:****A4D1396 - 07 02 24 0825****APEX LABS COOLER RECEIPT FORM**Client: GRI Element WO#: A4D1396Project/Project #: 6909-A**Delivery Info:**Date/time received: 4/18/14 @ 1430 By: APWDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 4/18/14 @ 1430 By: APWChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

|                  | Cooler #1  | Cooler #2 | Cooler #3 | Cooler #4 | Cooler #5 | Cooler #6 | Cooler #7 |
|------------------|------------|-----------|-----------|-----------|-----------|-----------|-----------|
| Temperature (°C) | <u>1.3</u> |           |           |           |           |           |           |

Custody seals? (Y/N) NReceived on ice? (Y/N) YTemp. blanks? (Y/N) YIce type: (Gel/Real/Other) RealCondition (In/Out): InCooler out of temp? (Y/N) N Possible reason why: Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 4/18/14 @ 1858 By: APWAll samples intact? Yes ☒ No ☐ Comments: Bottle labels/COCs agree? Yes ☒ No ☐ Comments: COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☐ No ☐ NA ☒ pH appropriate? Yes ☐ No ☐ NA ☒ pH ID: Comments: Labeled by: APWWitness: JAMCooler Inspected by: APW

Form Y-003 R-02

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Darwin Thomas, Business Development Director



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Tuesday, August 6, 2024

Greg Martin

GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

RE: A4F1068 - OMSI - Crescent Parcel/6909-A

Thank you for using Apex Laboratories. We greatly appreciate your business and strive to provide the highest quality services to the environmental industry.

Enclosed are the results of analyses for work order A4F1068, which was received by the laboratory on 6/11/2024 at 11:05:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: [dthomas@apex-labs.com](mailto:dthomas@apex-labs.com), or by phone at 503-718-2323.

Please note: All samples will be disposed of within 30 days of sample receipt, unless prior arrangements have been made.

Cooler Receipt Information

Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.

(See Cooler Receipt Form for details)

Default Cooler    4.8    degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.

All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.



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Darwin Thomas, Business Development Director

**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: Crescent Parcel/6909-A  
Project Manager: Greg Martin**Report ID:**

A4F1068 - 08 06 24 1656

**ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

| Client Sample ID | Laboratory ID | Matrix | Date Sampled   | Date Received  |
|------------------|---------------|--------|----------------|----------------|
| DP-1-2           | A4F1068-01    | Soil   | 06/10/24 09:20 | 06/11/24 11:05 |
| DP-1-10          | A4F1068-02    | Soil   | 06/10/24 09:34 | 06/11/24 11:05 |
| DP-1-20          | A4F1068-03    | Soil   | 06/10/24 09:50 | 06/11/24 11:05 |
| DP-2-2           | A4F1068-04    | Soil   | 06/10/24 10:14 | 06/11/24 11:05 |
| DP-2-9           | A4F1068-05    | Soil   | 06/10/24 10:31 | 06/11/24 11:05 |
| DP-2-20          | A4F1068-06    | Soil   | 06/10/24 10:48 | 06/11/24 11:05 |
| DP-3-10          | A4F1068-07    | Soil   | 06/10/24 11:14 | 06/11/24 11:05 |
| DP-4-2           | A4F1068-08    | Soil   | 06/10/24 12:05 | 06/11/24 11:05 |
| DP-4-9           | A4F1068-09    | Soil   | 06/10/24 12:11 | 06/11/24 11:05 |
| DP-4-20          | A4F1068-10    | Soil   | 06/10/24 12:15 | 06/11/24 11:05 |
| DP-5-10          | A4F1068-11    | Soil   | 06/10/24 11:30 | 06/11/24 11:05 |
| DP-6-10          | A4F1068-12    | Soil   | 06/10/24 11:48 | 06/11/24 11:05 |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                        | Sample Result | Detection Limit     | Reporting Limit | Units            | Dilution              | Date Analyzed  | Method Ref. | Notes |
|--------------------------------|---------------|---------------------|-----------------|------------------|-----------------------|----------------|-------------|-------|
| <b>DP-1-2 (A4F1068-01)</b>     |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |       |
| Diesel                         | ND            | ---                 | 21.7            | mg/kg dry        | 1                     | 06/14/24 00:32 | NWTPH-Dx    |       |
| Oil                            | 452           | ---                 | 43.5            | mg/kg dry        | 1                     | 06/14/24 00:32 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 86 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 00:32 | NWTPH-Dx    |       |
| <b>DP-1-10 (A4F1068-02)</b>    |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |       |
| Diesel                         | ND            | ---                 | 20.4            | mg/kg dry        | 1                     | 06/14/24 01:13 | NWTPH-Dx    |       |
| Oil                            | 145           | ---                 | 40.9            | mg/kg dry        | 1                     | 06/14/24 01:13 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 74 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 01:13 | NWTPH-Dx    |       |
| <b>DP-1-20 (A4F1068-03)</b>    |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0681</b> |                |             |       |
| Diesel                         | ND            | ---                 | 19.1            | mg/kg dry        | 1                     | 06/20/24 23:05 | NWTPH-Dx    |       |
| Oil                            | ND            | ---                 | 38.2            | mg/kg dry        | 1                     | 06/20/24 23:05 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 82 %      |                 | Limits: 50-150 % | 1                     | 06/20/24 23:05 | NWTPH-Dx    |       |
| <b>DP-2-2 (A4F1068-04RE1)</b>  |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |       |
| Diesel                         | ND            | ---                 | 22.2            | mg/kg dry        | 1                     | 06/17/24 11:36 | NWTPH-Dx    |       |
| Oil                            | ND            | ---                 | 44.5            | mg/kg dry        | 1                     | 06/17/24 11:36 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 73 %      |                 | Limits: 50-150 % | 1                     | 06/17/24 11:36 | NWTPH-Dx    |       |
| <b>DP-2-9 (A4F1068-05)</b>     |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0681</b> |                |             |       |
| Diesel                         | ND            | ---                 | 19.9            | mg/kg dry        | 1                     | 06/20/24 23:45 | NWTPH-Dx    |       |
| Oil                            | ND            | ---                 | 39.9            | mg/kg dry        | 1                     | 06/20/24 23:45 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 80 %      |                 | Limits: 50-150 % | 1                     | 06/20/24 23:45 | NWTPH-Dx    |       |
| <b>DP-2-20 (A4F1068-06)</b>    |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |       |
| Diesel                         | ND            | ---                 | 18.4            | mg/kg dry        | 1                     | 06/14/24 02:15 | NWTPH-Dx    |       |
| Oil                            | ND            | ---                 | 36.8            | mg/kg dry        | 1                     | 06/14/24 02:15 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 100 %     |                 | Limits: 50-150 % | 1                     | 06/14/24 02:15 | NWTPH-Dx    |       |
| <b>DP-3-10 (A4F1068-07RE1)</b> |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |       |
| Diesel                         | ND            | ---                 | 43.3            | mg/kg dry        | 2                     | 06/14/24 09:15 | NWTPH-Dx    |       |
| Oil                            | 387           | ---                 | 86.6            | mg/kg dry        | 2                     | 06/14/24 09:15 | NWTPH-Dx    |       |
| Surrogate: o-Terphenyl (Surr)  |               | Recovery: 93 %      |                 | Limits: 50-150 % | 2                     | 06/14/24 09:15 | NWTPH-Dx    | S-05  |

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Darwin Thomas, Business Development Director



## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                       | Sample Result | Detection Limit     | Reporting Limit | Units            | Dilution              | Date Analyzed  | Method Ref. | Notes      |
|-------------------------------|---------------|---------------------|-----------------|------------------|-----------------------|----------------|-------------|------------|
| <b>DP-4-2 (A4F1068-08)</b>    |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |            |
| Diesel                        | ND            | ---                 | 20.1            | mg/kg dry        | 1                     | 06/14/24 02:57 | NWTPH-Dx    |            |
| Oil                           | 399           | ---                 | 40.1            | mg/kg dry        | 1                     | 06/14/24 02:57 | NWTPH-Dx    |            |
| Surrogate: o-Terphenyl (Surr) |               | Recovery: 91 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 02:57 | NWTPH-Dx    |            |
| <b>DP-4-9 (A4F1068-09)</b>    |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |            |
| Diesel                        | ND            | ---                 | 18.3            | mg/kg dry        | 1                     | 06/14/24 03:38 | NWTPH-Dx    |            |
| Oil                           | ND            | ---                 | 36.6            | mg/kg dry        | 1                     | 06/14/24 03:38 | NWTPH-Dx    |            |
| Surrogate: o-Terphenyl (Surr) |               | Recovery: 94 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 03:38 | NWTPH-Dx    |            |
| <b>DP-4-20 (A4F1068-10)</b>   |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |            |
| Diesel                        | ND            | ---                 | 19.1            | mg/kg dry        | 1                     | 06/14/24 03:59 | NWTPH-Dx    |            |
| Oil                           | ND            | ---                 | 38.1            | mg/kg dry        | 1                     | 06/14/24 03:59 | NWTPH-Dx    |            |
| Surrogate: o-Terphenyl (Surr) |               | Recovery: 91 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 03:59 | NWTPH-Dx    |            |
| <b>DP-5-10 (A4F1068-11)</b>   |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |            |
| Diesel                        | ND            | ---                 | 213             | mg/kg dry        | 10                    | 06/14/24 04:19 | NWTPH-Dx    |            |
| Oil                           | 714           | ---                 | 426             | mg/kg dry        | 10                    | 06/14/24 04:19 | NWTPH-Dx    |            |
| Surrogate: o-Terphenyl (Surr) |               | Recovery: 87 %      |                 | Limits: 50-150 % | 10                    | 06/14/24 04:19 | NWTPH-Dx    | S-05       |
| <b>DP-6-10 (A4F1068-12)</b>   |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0439</b> |                |             |            |
| Diesel                        | ND            | ---                 | 19.2            | mg/kg dry        | 1                     | 06/14/24 05:00 | NWTPH-Dx    |            |
| Oil                           | 149           | ---                 | 38.4            | mg/kg dry        | 1                     | 06/14/24 05:00 | NWTPH-Dx    | Q-39, Q-42 |
| Surrogate: o-Terphenyl (Surr) |               | Recovery: 95 %      |                 | Limits: 50-150 % | 1                     | 06/14/24 05:00 | NWTPH-Dx    |            |

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ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

ANALYTICAL SAMPLE RESULTS

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**

| Analyte                               | Sample Result | Detection Limit     | Reporting Limit | Units            | Dilution              | Date Analyzed  | Method Ref.   | Notes |
|---------------------------------------|---------------|---------------------|-----------------|------------------|-----------------------|----------------|---------------|-------|
| <b>DP-1-20 (A4F1068-03)</b>           |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0521</b> |                |               |       |
| Gasoline Range Organics               | ND            | ---                 | 5.00            | mg/kg dry        | 50                    | 06/15/24 12:24 | NWTPH-Gx (MS) |       |
| Surrogate: 4-Bromofluorobenzene (Sur) |               | Recovery:           | 95 %            | Limits: 50-150 % | 1                     | 06/15/24 12:24 | NWTPH-Gx (MS) |       |
| 1,4-Difluorobenzene (Sur)             |               |                     | 113 %           | 50-150 %         | 1                     | 06/15/24 12:24 | NWTPH-Gx (MS) |       |
| <b>DP-2-9 (A4F1068-05)</b>            |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0521</b> |                |               |       |
| Gasoline Range Organics               | ND            | ---                 | 5.20            | mg/kg dry        | 50                    | 06/15/24 12:51 | NWTPH-Gx (MS) |       |
| Surrogate: 4-Bromofluorobenzene (Sur) |               | Recovery:           | 98 %            | Limits: 50-150 % | 1                     | 06/15/24 12:51 | NWTPH-Gx (MS) |       |
| 1,4-Difluorobenzene (Sur)             |               |                     | 113 %           | 50-150 %         | 1                     | 06/15/24 12:51 | NWTPH-Gx (MS) |       |

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## ANALYTICAL REPORT

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6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

| Analyte                               | Sample Result | Detection Limit     | Reporting Limit | Units     | Dilution              | Date Analyzed  | Method Ref.    | Notes       |
|---------------------------------------|---------------|---------------------|-----------------|-----------|-----------------------|----------------|----------------|-------------|
| <b>DP-1-20 (A4F1068-03)</b>           |               | <b>Matrix: Soil</b> |                 |           | <b>Batch: 24F0521</b> |                |                |             |
| Benzene                               | ND            | ---                 | 0.0100          | mg/kg dry | 50                    | 06/15/24 12:24 | 5035A/8260D    |             |
| Toluene                               | ND            | ---                 | 0.0500          | mg/kg dry | 50                    | 06/15/24 12:24 | 5035A/8260D    |             |
| Ethylbenzene                          | ND            | ---                 | 0.0250          | mg/kg dry | 50                    | 06/15/24 12:24 | 5035A/8260D    |             |
| Xylenes, total                        | ND            | ---                 | 0.0750          | mg/kg dry | 50                    | 06/15/24 12:24 | 5035A/8260D    |             |
| Surrogate: 1,4-Difluorobenzene (Surr) |               | Recovery:           | 101 %           | Limits:   | 80-120 %              | 1              | 06/15/24 12:24 | 5035A/8260D |
| Toluene-d8 (Surr)                     |               |                     | 102 %           |           | 80-120 %              | 1              | 06/15/24 12:24 | 5035A/8260D |
| 4-Bromofluorobenzene (Surr)           |               |                     | 99 %            |           | 79-120 %              | 1              | 06/15/24 12:24 | 5035A/8260D |
| <b>DP-2-9 (A4F1068-05)</b>            |               | <b>Matrix: Soil</b> |                 |           | <b>Batch: 24F0521</b> |                |                |             |
| Benzene                               | ND            | ---                 | 0.0104          | mg/kg dry | 50                    | 06/15/24 12:51 | 5035A/8260D    |             |
| Toluene                               | ND            | ---                 | 0.0520          | mg/kg dry | 50                    | 06/15/24 12:51 | 5035A/8260D    |             |
| Ethylbenzene                          | ND            | ---                 | 0.0260          | mg/kg dry | 50                    | 06/15/24 12:51 | 5035A/8260D    |             |
| Xylenes, total                        | ND            | ---                 | 0.0780          | mg/kg dry | 50                    | 06/15/24 12:51 | 5035A/8260D    |             |
| Surrogate: 1,4-Difluorobenzene (Surr) |               | Recovery:           | 103 %           | Limits:   | 80-120 %              | 1              | 06/15/24 12:51 | 5035A/8260D |
| Toluene-d8 (Surr)                     |               |                     | 102 %           |           | 80-120 %              | 1              | 06/15/24 12:51 | 5035A/8260D |
| 4-Bromofluorobenzene (Surr)           |               |                     | 99 %            |           | 79-120 %              | 1              | 06/15/24 12:51 | 5035A/8260D |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                              | Sample Result | Detection Limit     | Reporting Limit | Units            | Dilution              | Date Analyzed  | Method Ref. | Notes       |
|--------------------------------------|---------------|---------------------|-----------------|------------------|-----------------------|----------------|-------------|-------------|
| <b>DP-1-2 (A4F1068-01)</b>           |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0733</b> |                | <b>C-07</b> |             |
| Aroclor 1016                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---                 | 0.0108          | mg/kg dry        | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 97 %      |                 | Limits: 60-125 % | 1                     | 06/21/24 18:54 | EPA 8082A   |             |
| <b>DP-1-10 (A4F1068-02)</b>          |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0733</b> |                | <b>C-07</b> |             |
| Aroclor 1016                         | ND            | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1254                         | <b>0.0110</b> | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   | <b>P-12</b> |
| Aroclor 1260                         | <b>0.0171</b> | ---                 | 0.0102          | mg/kg dry        | 1                     | 06/21/24 20:05 | EPA 8082A   | <b>P-12</b> |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 97 %      |                 | Limits: 60-125 % | 1                     | 06/21/24 20:05 | EPA 8082A   |             |
| <b>DP-1-20 (A4F1068-03)</b>          |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0733</b> |                | <b>C-07</b> |             |
| Aroclor 1016                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---                 | 0.00950         | mg/kg dry        | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 104 %     |                 | Limits: 60-125 % | 1                     | 06/21/24 20:41 | EPA 8082A   |             |
| <b>DP-2-2 (A4F1068-04)</b>           |               | <b>Matrix: Soil</b> |                 |                  | <b>Batch: 24F0733</b> |                | <b>C-07</b> |             |
| Aroclor 1016                         | ND            | ---                 | 0.0110          | mg/kg dry        | 1                     | 06/21/24 21:16 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.0110          | mg/kg dry        | 1                     | 06/21/24 21:16 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.0110          | mg/kg dry        | 1                     | 06/21/24 21:16 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.0110          | mg/kg dry        | 1                     | 06/21/24 21:16 | EPA 8082A   |             |

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Darwin Thomas, Business Development Director



## ANALYTICAL REPORT

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                              | Sample Result | Detection Limit     | Reporting Limit | Units                 | Dilution | Date Analyzed  | Method Ref. | Notes |
|--------------------------------------|---------------|---------------------|-----------------|-----------------------|----------|----------------|-------------|-------|
| <b>DP-2-2 (A4F1068-04)</b>           |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |       |
| Aroclor 1248                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |       |
| Aroclor 1254                         | ND            | ---                 | 0.0110          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |       |
| <b>Aroclor 1260</b>                  | <b>0.0706</b> | ---                 | 0.0110          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |       |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 92 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 21:16 | EPA 8082A   |       |
| <b>DP-2-9 (A4F1068-05)</b>           |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |       |
| Aroclor 1016                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1221                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1232                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1242                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1248                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1254                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Aroclor 1260                         | ND            | ---                 | 0.00962         | mg/kg dry             | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 104 %     |                 | Limits: 60-125 %      | 1        | 06/21/24 21:52 | EPA 8082A   |       |
| <b>DP-2-20 (A4F1068-06)</b>          |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |       |
| Aroclor 1016                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1221                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1232                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1242                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1248                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1254                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Aroclor 1260                         | ND            | ---                 | 0.00938         | mg/kg dry             | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 95 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 18:18 | EPA 8082A   |       |
| <b>DP-3-10 (A4F1068-07)</b>          |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |       |
| Aroclor 1016                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1221                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1232                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1242                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1248                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1254                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Aroclor 1260                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 18:54 | EPA 8082A   |       |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 82 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 18:54 | EPA 8082A   |       |

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Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                              | Sample Result | Detection Limit     | Reporting Limit | Units                 | Dilution | Date Analyzed  | Method Ref. | Notes       |
|--------------------------------------|---------------|---------------------|-----------------|-----------------------|----------|----------------|-------------|-------------|
| <b>DP-4-2 (A4F1068-08)</b>           |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---                 | 0.00995         | mg/kg dry             | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 94 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 19:30 | EPA 8082A   |             |
| <b>DP-4-9 (A4F1068-09)</b>           |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---                 | 0.00924         | mg/kg dry             | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 98 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 20:05 | EPA 8082A   |             |
| <b>DP-4-20 (A4F1068-10)</b>          |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| <b>Aroclor 1260</b>                  | <b>0.0102</b> | ---                 | 0.00942         | mg/kg dry             | 1        | 06/21/24 20:41 | EPA 8082A   | <b>P-09</b> |
| Surrogate: Decachlorobiphenyl (Surr) |               | Recovery: 96 %      |                 | Limits: 60-125 %      | 1        | 06/21/24 20:41 | EPA 8082A   |             |
| <b>DP-5-10 (A4F1068-11)</b>          |               | <b>Matrix: Soil</b> |                 | <b>Batch: 24F0733</b> |          | <b>C-07</b>    |             |             |
| Aroclor 1016                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---                 | 0.0106          | mg/kg dry             | 1        | 06/21/24 21:16 | EPA 8082A   |             |

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## ANALYTICAL REPORT

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**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                              | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref. | Notes       |
|--------------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|-------------|-------------|
| <b>DP-5-10 (A4F1068-11)</b>          |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0733</b> |             | <b>C-07</b> |
| Aroclor 1242                         | ND            | ---             | 0.0106          | mg/kg dry           | 1        | 06/21/24 21:16        | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---             | 0.0106          | mg/kg dry           | 1        | 06/21/24 21:16        | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---             | 0.0106          | mg/kg dry           | 1        | 06/21/24 21:16        | EPA 8082A   |             |
| Aroclor 1260                         | ND            | ---             | 0.0106          | mg/kg dry           | 1        | 06/21/24 21:16        | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               |                 | Recovery: 85 %  | Limits: 60-125 %    | 1        | 06/21/24 21:16        | EPA 8082A   |             |
| <b>DP-6-10 (A4F1068-12)</b>          |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0733</b> |             | <b>C-07</b> |
| Aroclor 1016                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Aroclor 1221                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Aroclor 1232                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Aroclor 1242                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Aroclor 1248                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Aroclor 1254                         | ND            | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| <b>Aroclor 1260</b>                  | <b>0.0458</b> | ---             | 0.00976         | mg/kg dry           | 1        | 06/21/24 21:52        | EPA 8082A   |             |
| Surrogate: Decachlorobiphenyl (Surr) |               |                 | Recovery: 94 %  | Limits: 60-125 %    | 1        | 06/21/24 21:52        | EPA 8082A   |             |

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Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                            | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref.   | Notes |
|------------------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|---------------|-------|
| <b>DP-1-20 (A4F1068-03)</b>        |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0387</b> |               |       |
| Acenaphthene                       | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Acenaphthylene                     | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Anthracene                         | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Benz(a)anthracene                  | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Benzo(a)pyrene                     | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Benzo(b)fluoranthene               | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Benzo(k)fluoranthene               | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Benzo(g,h,i)perylene               | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Chrysene                           | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Dibenz(a,h)anthracene              | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Fluoranthene                       | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Fluorene                           | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Indeno(1,2,3-cd)pyrene             | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| 1-Methylnaphthalene                | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| 2-Methylnaphthalene                | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Naphthalene                        | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Phenanthrene                       | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Pyrene                             | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Dibenzofuran                       | ND            | ---             | 0.00918         | mg/kg dry           | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| Surrogate: 2-Fluorobiphenyl (Surr) |               | Recovery: 88 %  |                 | Limits: 44-120 %    | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |
| p-Terphenyl-d14 (Surr)             |               | 88 %            |                 | 54-127 %            | 1        | 06/12/24 13:00        | EPA 8270E SIM |       |

**DP-2-9 (A4F1068-05)****Matrix: Soil****Batch: 24F0387**

|                       |    |     |         |           |   |                |               |
|-----------------------|----|-----|---------|-----------|---|----------------|---------------|
| Acenaphthene          | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Acenaphthylene        | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Anthracene            | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Benz(a)anthracene     | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Benzo(a)pyrene        | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Benzo(b)fluoranthene  | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Benzo(k)fluoranthene  | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Benzo(g,h,i)perylene  | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Chrysene              | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |
| Dibenz(a,h)anthracene | ND | --- | 0.00943 | mg/kg dry | 1 | 06/12/24 12:09 | EPA 8270E SIM |

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**GRI**  
16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**  
Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin**

**Report ID:**  
**A4F1068 - 08 06 24 1656**

## ANALYTICAL SAMPLE RESULTS

### Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                                   | Sample Result | Detection Limit     | Reporting Limit | Units       | Dilution                | Date Analyzed  | Method Ref.           | Notes                |
|-------------------------------------------|---------------|---------------------|-----------------|-------------|-------------------------|----------------|-----------------------|----------------------|
| <b>DP-2-9 (A4F1068-05)</b>                |               | <b>Matrix: Soil</b> |                 |             | <b>Batch: 24F0387</b>   |                |                       |                      |
| Fluoranthene                              | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Fluorene                                  | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Indeno(1,2,3-cd)pyrene                    | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| 1-Methylnaphthalene                       | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| 2-Methylnaphthalene                       | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Naphthalene                               | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Phenanthrene                              | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Pyrene                                    | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| Dibenzofuran                              | ND            | ---                 | 0.00943         | mg/kg dry   | 1                       | 06/12/24 12:09 | EPA 8270E SIM         |                      |
| <i>Surrogate: 2-Fluorobiphenyl (Surr)</i> |               | <i>Recovery:</i>    |                 | <i>82 %</i> | <i>Limits: 44-120 %</i> | <i>1</i>       | <i>06/12/24 12:09</i> | <i>EPA 8270E SIM</i> |
| <i>p-Terphenyl-d14 (Surr)</i>             |               |                     |                 | <i>83 %</i> | <i>54-127 %</i>         | <i>1</i>       | <i>06/12/24 12:09</i> | <i>EPA 8270E SIM</i> |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656**

## ANALYTICAL SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

| Analyte                                  | Sample Result | Detection Limit | Reporting Limit | Units     | Dilution | Date Analyzed  | Method Ref. | Notes       |
|------------------------------------------|---------------|-----------------|-----------------|-----------|----------|----------------|-------------|-------------|
| <b>DP-1-2 (A4F1068-01) Matrix: Soil</b>  |               |                 |                 |           |          |                |             |             |
| Batch: 24F0691                           |               |                 |                 |           |          |                |             |             |
| <b>Cadmium</b>                           | <b>0.386</b>  | ---             | 0.253           | mg/kg dry | 10       | 06/20/24 19:11 | EPA 6020B   |             |
| <b>Chromium</b>                          | <b>8.37</b>   | ---             | 1.27            | mg/kg dry | 10       | 06/20/24 19:11 | EPA 6020B   | <b>Q-42</b> |
| <b>Lead</b>                              | <b>140</b>    | ---             | 0.253           | mg/kg dry | 10       | 06/20/24 19:11 | EPA 6020B   | <b>Q-42</b> |
| <b>DP-1-10 (A4F1068-02) Matrix: Soil</b> |               |                 |                 |           |          |                |             |             |
| Batch: 24F0691                           |               |                 |                 |           |          |                |             |             |
| <b>Cadmium</b>                           | <b>ND</b>     | ---             | 0.222           | mg/kg dry | 10       | 06/20/24 19:38 | EPA 6020B   |             |
| <b>Chromium</b>                          | <b>8.49</b>   | ---             | 1.11            | mg/kg dry | 10       | 06/20/24 19:38 | EPA 6020B   |             |
| <b>Lead</b>                              | <b>5.21</b>   | ---             | 0.222           | mg/kg dry | 10       | 06/20/24 19:38 | EPA 6020B   |             |
| <b>DP-1-20 (A4F1068-03) Matrix: Soil</b> |               |                 |                 |           |          |                |             |             |
| Batch: 24F0691                           |               |                 |                 |           |          |                |             |             |
| <b>Arsenic</b>                           | <b>2.61</b>   | ---             | 1.06            | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Barium</b>                            | <b>53.3</b>   | ---             | 1.06            | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Cadmium</b>                           | <b>ND</b>     | ---             | 0.212           | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Chromium</b>                          | <b>8.68</b>   | ---             | 1.06            | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Lead</b>                              | <b>2.00</b>   | ---             | 0.212           | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Mercury</b>                           | <b>ND</b>     | ---             | 0.0849          | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Selenium</b>                          | <b>ND</b>     | ---             | 1.06            | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>Silver</b>                            | <b>ND</b>     | ---             | 0.212           | mg/kg dry | 10       | 06/20/24 19:43 | EPA 6020B   |             |
| <b>DP-2-2 (A4F1068-04) Matrix: Soil</b>  |               |                 |                 |           |          |                |             |             |
| Batch: 24F0691                           |               |                 |                 |           |          |                |             |             |
| <b>Cadmium</b>                           | <b>ND</b>     | ---             | 0.247           | mg/kg dry | 10       | 06/20/24 19:49 | EPA 6020B   |             |
| <b>Chromium</b>                          | <b>30.5</b>   | ---             | 1.24            | mg/kg dry | 10       | 06/20/24 19:49 | EPA 6020B   |             |
| <b>Lead</b>                              | <b>25.9</b>   | ---             | 0.247           | mg/kg dry | 10       | 06/20/24 19:49 | EPA 6020B   |             |
| <b>DP-2-9 (A4F1068-05) Matrix: Soil</b>  |               |                 |                 |           |          |                |             |             |
| Batch: 24F0691                           |               |                 |                 |           |          |                |             |             |
| <b>Arsenic</b>                           | <b>2.66</b>   | ---             | 1.16            | mg/kg dry | 10       | 06/20/24 19:54 | EPA 6020B   |             |
| <b>Barium</b>                            | <b>79.2</b>   | ---             | 1.16            | mg/kg dry | 10       | 06/20/24 19:54 | EPA 6020B   |             |
| <b>Cadmium</b>                           | <b>ND</b>     | ---             | 0.232           | mg/kg dry | 10       | 06/20/24 19:54 | EPA 6020B   |             |
| <b>Chromium</b>                          | <b>10.9</b>   | ---             | 1.16            | mg/kg dry | 10       | 06/20/24 19:54 | EPA 6020B   |             |
| <b>Lead</b>                              | <b>17.7</b>   | ---             | 0.232           | mg/kg dry | 10       | 06/20/24 19:54 | EPA 6020B   |             |

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

## ANALYTICAL SAMPLE RESULTS

### Total Metals by EPA 6020B (ICPMS)

| Analyte                 | Sample Result | Detection Limit | Reporting Limit | Units        | Dilution | Date Analyzed  | Method Ref. | Notes |
|-------------------------|---------------|-----------------|-----------------|--------------|----------|----------------|-------------|-------|
| DP-2-9 (A4F1068-05)     |               |                 |                 | Matrix: Soil |          |                |             |       |
| Mercury                 | ND            | ---             | 0.0930          | mg/kg dry    | 10       | 06/20/24 19:54 | EPA 6020B   |       |
| Selenium                | ND            | ---             | 1.16            | mg/kg dry    | 10       | 06/20/24 19:54 | EPA 6020B   |       |
| Silver                  | ND            | ---             | 0.232           | mg/kg dry    | 10       | 06/20/24 19:54 | EPA 6020B   |       |
| DP-2-20 (A4F1068-06)    |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Cadmium                 | ND            | ---             | 0.225           | mg/kg dry    | 10       | 06/20/24 19:59 | EPA 6020B   |       |
| Chromium                | 7.75          | ---             | 1.13            | mg/kg dry    | 10       | 06/20/24 19:59 | EPA 6020B   |       |
| Lead                    | 2.83          | ---             | 0.225           | mg/kg dry    | 10       | 06/20/24 19:59 | EPA 6020B   |       |
| DP-3-10 (A4F1068-07)    |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Cadmium                 | 0.496         | ---             | 0.243           | mg/kg dry    | 10       | 06/20/24 20:05 | EPA 6020B   |       |
| Chromium                | 31.8          | ---             | 1.21            | mg/kg dry    | 10       | 06/20/24 20:05 | EPA 6020B   |       |
| DP-3-10 (A4F1068-07RE1) |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Lead                    | 13500         | ---             | 24.3            | mg/kg dry    | 1000     | 06/21/24 17:25 | EPA 6020B   |       |
| DP-4-2 (A4F1068-08)     |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Cadmium                 | ND            | ---             | 0.227           | mg/kg dry    | 10       | 06/20/24 20:11 | EPA 6020B   |       |
| Chromium                | 8.63          | ---             | 1.13            | mg/kg dry    | 10       | 06/20/24 20:11 | EPA 6020B   |       |
| DP-4-2 (A4F1068-08RE1)  |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Lead                    | 11.8          | ---             | 0.227           | mg/kg dry    | 10       | 06/21/24 17:30 | EPA 6020B   |       |
| DP-4-9 (A4F1068-09)     |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Cadmium                 | ND            | ---             | 0.206           | mg/kg dry    | 10       | 06/20/24 20:18 | EPA 6020B   |       |
| Chromium                | 10.1          | ---             | 1.03            | mg/kg dry    | 10       | 06/20/24 20:18 | EPA 6020B   |       |
| DP-4-9 (A4F1068-09RE1)  |               |                 |                 | Matrix: Soil |          |                |             |       |
| Batch: 24F0691          |               |                 |                 |              |          |                |             |       |
| Lead                    | 2.45          | ---             | 0.206           | mg/kg dry    | 10       | 06/21/24 17:35 | EPA 6020B   |       |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656****ANALYTICAL SAMPLE RESULTS****Total Metals by EPA 6020B (ICPMS)**

| Analyte                                     | Sample Result | Detection Limit | Reporting Limit | Units     | Dilution | Date Analyzed  | Method Ref. | Notes |
|---------------------------------------------|---------------|-----------------|-----------------|-----------|----------|----------------|-------------|-------|
| <b>DP-4-20 (A4F1068-10) Matrix: Soil</b>    |               |                 |                 |           |          |                |             |       |
| Batch: 24F0691                              |               |                 |                 |           |          |                |             |       |
| Cadmium                                     | ND            | ---             | 0.222           | mg/kg dry | 10       | 06/20/24 20:23 | EPA 6020B   |       |
| Chromium                                    | 9.93          | ---             | 1.11            | mg/kg dry | 10       | 06/20/24 20:23 | EPA 6020B   |       |
| <b>DP-4-20 (A4F1068-10RE1) Matrix: Soil</b> |               |                 |                 |           |          |                |             |       |
| Batch: 24F0691                              |               |                 |                 |           |          |                |             |       |
| Lead                                        | 2.04          | ---             | 0.222           | mg/kg dry | 10       | 06/21/24 17:43 | EPA 6020B   |       |
| <b>DP-5-10 (A4F1068-11) Matrix: Soil</b>    |               |                 |                 |           |          |                |             |       |
| Batch: 24F0691                              |               |                 |                 |           |          |                |             |       |
| Cadmium                                     | 1.82          | ---             | 0.249           | mg/kg dry | 10       | 06/20/24 20:29 | EPA 6020B   |       |
| Chromium                                    | 176           | ---             | 1.24            | mg/kg dry | 10       | 06/20/24 20:29 | EPA 6020B   |       |
| Lead                                        | 398           | ---             | 0.249           | mg/kg dry | 10       | 06/20/24 20:29 | EPA 6020B   |       |
| <b>DP-6-10 (A4F1068-12) Matrix: Soil</b>    |               |                 |                 |           |          |                |             |       |
| Batch: 24F0691                              |               |                 |                 |           |          |                |             |       |
| Cadmium                                     | 0.310         | ---             | 0.239           | mg/kg dry | 10       | 06/20/24 20:46 | EPA 6020B   |       |
| Chromium                                    | 24.0          | ---             | 1.20            | mg/kg dry | 10       | 06/20/24 20:46 | EPA 6020B   |       |
| Lead                                        | 167           | ---             | 0.239           | mg/kg dry | 10       | 06/20/24 20:46 | EPA 6020B   |       |

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# ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## ANALYTICAL SAMPLE RESULTS

### TCLP Metals by EPA 6020B (ICPMS)

| Analyte                        | Sample Result | Detection Limit     | Reporting Limit | Units | Dilution | Date Analyzed  | Method Ref. | Notes |
|--------------------------------|---------------|---------------------|-----------------|-------|----------|----------------|-------------|-------|
| <b>DP-1-2 (A4F1068-01)</b>     |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24G0336                 |               |                     |                 |       |          |                |             |       |
| Lead                           | ND            | ---                 | 0.0500          | mg/L  | 10       | 07/11/24 19:39 | 1311/6020B  |       |
| <b>DP-3-10 (A4F1068-07RE1)</b> |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24G0336                 |               |                     |                 |       |          |                |             |       |
| Lead                           | 168           | ---                 | 0.500           | mg/L  | 100      | 07/12/24 13:03 | 1311/6020B  |       |
| <b>DP-5-10 (A4F1068-11)</b>    |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24G0336                 |               |                     |                 |       |          |                |             |       |
| Chromium                       | ND            | ---                 | 0.100           | mg/L  | 10       | 07/11/24 20:01 | 1311/6020B  |       |
| <b>DP-5-10 (A4F1068-11RE1)</b> |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24G0336                 |               |                     |                 |       |          |                |             |       |
| Lead                           | ND            | ---                 | 0.0500          | mg/L  | 10       | 07/12/24 13:10 | 1311/6020B  |       |
| <b>DP-6-10 (A4F1068-12)</b>    |               | <b>Matrix: Soil</b> |                 |       |          |                |             |       |
| Batch: 24G0336                 |               |                     |                 |       |          |                |             |       |
| Lead                           | ND            | ---                 | 0.0500          | mg/L  | 10       | 07/11/24 20:07 | 1311/6020B  |       |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656****ANALYTICAL SAMPLE RESULTS****Percent Dry Weight**

| Analyte                     | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref. | Notes |
|-----------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|-------------|-------|
| <b>DP-1-2 (A4F1068-01)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 83.1          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-1-10 (A4F1068-02)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 88.5          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-1-20 (A4F1068-03)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 94.4          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-2-2 (A4F1068-04)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 81.1          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-2-9 (A4F1068-05)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 90.7          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-2-20 (A4F1068-06)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 94.4          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-3-10 (A4F1068-07)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 82.4          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-4-2 (A4F1068-08)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 88.5          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-4-9 (A4F1068-09)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 95.4          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-4-20 (A4F1068-10)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 93.1          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-5-10 (A4F1068-11)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 83.8          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |
| <b>DP-6-10 (A4F1068-12)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24F0402</b> |             |       |
| % Solids                    | 90.6          | ---             | 1.00            | %                   | 1        | 06/13/24 07:29        | EPA 8000D   |       |

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

ANALYTICAL SAMPLE RESULTS

**TCLP Extraction by EPA 1311**

| Analyte                     | Sample Result | Detection Limit | Reporting Limit | Units               | Dilution | Date Analyzed         | Method Ref. | Notes |
|-----------------------------|---------------|-----------------|-----------------|---------------------|----------|-----------------------|-------------|-------|
| <b>DP-1-2 (A4F1068-01)</b>  |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24G0243</b> |             |       |
| TCLP Extraction             | PREP          | ---             |                 | N/A                 | 1        | 07/09/24 16:13        | EPA 1311    |       |
| <b>DP-3-10 (A4F1068-07)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24G0243</b> |             |       |
| TCLP Extraction             | PREP          | ---             |                 | N/A                 | 1        | 07/09/24 16:13        | EPA 1311    |       |
| <b>DP-5-10 (A4F1068-11)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24G0243</b> |             |       |
| TCLP Extraction             | PREP          | ---             |                 | N/A                 | 1        | 07/09/24 16:13        | EPA 1311    |       |
| <b>DP-6-10 (A4F1068-12)</b> |               |                 |                 | <b>Matrix: Soil</b> |          | <b>Batch: 24G0243</b> |             |       |
| TCLP Extraction             | PREP          | ---             |                 | N/A                 | 1        | 07/09/24 16:13        | EPA 1311    |       |

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## ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units            | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|------------------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0439 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| Blank (24F0439-BLK1)                   |        |                 | Prepared: 06/13/24 04:57 |                  | Analyzed: 06/13/24 08:00 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 20.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Oil                                    | ND     | ---             | 40.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 89 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24F0439-BS1)                      |        |                 | Prepared: 06/13/24 04:57 |                  | Analyzed: 06/13/24 08:23 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | 109    | ---             | 20.0                     | mg/kg wet        | 1                        | 125          | ---           | 87    | 38-132%      | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 93 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24F0439-DUP1)               |        |                 | Prepared: 06/13/24 04:57 |                  | Analyzed: 06/13/24 09:10 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1143-01) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 19.8                     | mg/kg dry        | 1                        | ---          | 44.7          | ---   | ---          | *** | 30%       | Q-04  |
| Oil                                    | ND     | ---             | 39.6                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 79 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24F0439-DUP2)               |        |                 | Prepared: 06/13/24 09:02 |                  | Analyzed: 06/14/24 05:42 |              |               |       |              |     |           |       |
| QC Source Sample: DP-6-10 (A4F1068-12) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 19.8                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Oil                                    | 411    | ---             | 39.5                     | mg/kg dry        | 1                        | ---          | 149           | ---   | ---          | 94  | 30%       | Q-04  |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 93 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Batch 24F0681 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| Blank (24F0681-BLK1)                   |        |                 | Prepared: 06/20/24 07:11 |                  | Analyzed: 06/20/24 20:22 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 20.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Oil                                    | ND     | ---             | 40.0                     | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 79 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24F0681-BS1)                      |        |                 | Prepared: 06/20/24 07:11 |                  | Analyzed: 06/20/24 20:42 |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Diesel and/or Oil Hydrocarbons by NWTPH-Dx

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units            | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|------------------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0681 - EPA 3546 (Fuels)       |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| LCS (24F0681-BS1)                      |        |                 | Prepared: 06/20/24 07:11 |                  | Analyzed: 06/20/24 20:42 |              |               |       |              |     |           |       |
| Diesel                                 | 106    | ---             | 20.0                     | mg/kg wet        | 1                        | 125          | ---           | 85    | 38-132%      | --- | ---       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 82 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24F0681-DUP1)               |        |                 | Prepared: 06/20/24 07:11 |                  | Analyzed: 06/20/24 23:25 |              |               |       |              |     |           |       |
| QC Source Sample: DP-1-20 (A4F1068-03) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| NWTPH-Dx                               |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 19.2                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Oil                                    | ND     | ---             | 38.4                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 65 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24F0681-DUP2)               |        |                 | Prepared: 06/20/24 07:11 |                  | Analyzed: 06/21/24 05:10 |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1346-01) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Diesel                                 | ND     | ---             | 19.5                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       | Q-05  |
| Oil                                    | ND     | ---             | 39.0                     | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Surr: o-Terphenyl (Surr)               |        | Recovery: 77 %  |                          | Limits: 50-150 % |                          | Dilution: 1x |               |       |              |     |           |       |

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx

| Analyte                                       | Result | Detection Limit | Reporting Limit                                     | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------|--------|-----------------|-----------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0521 - EPA 5035A                     |        |                 |                                                     |                  |          | Soil         |               |       |              |     |           |       |
| Blank (24F0521-BLK1)                          |        |                 | Prepared: 06/14/24 12:00   Analyzed: 06/15/24 07:53 |                  |          |              |               |       |              |     |           |       |
| <u>NWTPH-Gx (MS)</u>                          |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | ND     | ---             | 5.00                                                | mg/kg wet        | 50       | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 94 %  |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 107 %           |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| LCS (24F0521-BS2)                             |        |                 | Prepared: 06/14/24 12:00   Analyzed: 06/15/24 07:26 |                  |          |              |               |       |              |     |           |       |
| <u>NWTPH-Gx (MS)</u>                          |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | 23.9   | ---             | 5.00                                                | mg/kg wet        | 50       | 25.0         | ---           | 95    | 80-120%      | --- | ---       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 92 %  |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 106 %           |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| Duplicate (24F0521-DUP1)                      |        |                 | Prepared: 06/13/24 15:28   Analyzed: 06/15/24 17:49 |                  |          |              |               |       |              |     |           |       |
| <u>QC Source Sample: Non-SDG (A4F1163-02)</u> |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | ND     | ---             | 43.8                                                | mg/kg dry        | 100      | ---          | 36.0          | ---   | ---          | *** | 30%       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 96 %  |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 113 %           |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |
| Duplicate (24F0521-DUP2)                      |        |                 | Prepared: 06/10/24 12:30   Analyzed: 06/15/24 18:44 |                  |          |              |               |       |              |     |           |       |
| <u>QC Source Sample: Non-SDG (A4F1137-04)</u> |        |                 |                                                     |                  |          |              |               |       |              |     |           |       |
| Gasoline Range Organics                       | 904    | ---             | 48.4                                                | mg/kg dry        | 500      | ---          | 857           | ---   | ---          | 5   | 30%       |       |
| Surr: 4-Bromofluorobenzene (Sur)              |        | Recovery: 105 % |                                                     | Limits: 50-150 % |          | Dilution: 1x |               |       |              |     |           |       |
| 1,4-Difluorobenzene (Sur)                     |        | 112 %           |                                                     | 50-150 %         |          | "            |               |       |              |     |           |       |

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

| Analyte                                       | Result | Detection Limit | Reporting Limit                                     | Units     | Dilution         | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------|--------|-----------------|-----------------------------------------------------|-----------|------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0521 - EPA 5035A                     |        |                 |                                                     |           |                  | Soil         |               |       |              |     |           |       |
| Blank (24F0521-BLK1)                          |        |                 | Prepared: 06/14/24 12:00   Analyzed: 06/15/24 07:53 |           |                  |              |               |       |              |     |           |       |
| <u>5035A/8260D</u>                            |        |                 |                                                     |           |                  |              |               |       |              |     |           |       |
| Benzene                                       | ND     | ---             | 0.0100                                              | mg/kg wet | 50               | ---          | ---           | ---   | ---          | --- | ---       |       |
| Toluene                                       | ND     | ---             | 0.0500                                              | mg/kg wet | 50               | ---          | ---           | ---   | ---          | --- | ---       |       |
| Ethylbenzene                                  | ND     | ---             | 0.0250                                              | mg/kg wet | 50               | ---          | ---           | ---   | ---          | --- | ---       |       |
| Xylenes, total                                | ND     | ---             | 0.0750                                              | mg/kg wet | 50               | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)              |        | Recovery:       |                                                     | 101 %     | Limits: 80-120 % |              | Dilution: 1x  |       |              |     |           |       |
| Toluene-d8 (Surr)                             |        |                 |                                                     | 102 %     | 80-120 %         |              | "             |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                   |        |                 |                                                     | 99 %      | 79-120 %         |              | "             |       |              |     |           |       |
| LCS (24F0521-BS1)                             |        |                 | Prepared: 06/14/24 12:00   Analyzed: 06/15/24 06:59 |           |                  |              |               |       |              |     |           |       |
| <u>5035A/8260D</u>                            |        |                 |                                                     |           |                  |              |               |       |              |     |           |       |
| Benzene                                       | 1.06   | ---             | 0.0100                                              | mg/kg wet | 50               | 1.00         | ---           | 106   | 80-120%      | --- | ---       |       |
| Toluene                                       | 0.960  | ---             | 0.0500                                              | mg/kg wet | 50               | 1.00         | ---           | 96    | 80-120%      | --- | ---       |       |
| Ethylbenzene                                  | 1.01   | ---             | 0.0250                                              | mg/kg wet | 50               | 1.00         | ---           | 101   | 80-120%      | --- | ---       |       |
| Xylenes, total                                | 3.01   | ---             | 0.0750                                              | mg/kg wet | 50               | 3.00         | ---           | 100   | 80-120%      | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)              |        | Recovery:       |                                                     | 102 %     | Limits: 80-120 % |              | Dilution: 1x  |       |              |     |           |       |
| Toluene-d8 (Surr)                             |        |                 |                                                     | 101 %     | 80-120 %         |              | "             |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                   |        |                 |                                                     | 96 %      | 79-120 %         |              | "             |       |              |     |           |       |
| Duplicate (24F0521-DUP1)                      |        |                 | Prepared: 06/13/24 15:28   Analyzed: 06/15/24 17:49 |           |                  |              |               |       |              |     |           |       |
| <u>QC Source Sample: Non-SDG (A4F1163-02)</u> |        |                 |                                                     |           |                  |              |               |       |              |     |           |       |
| Benzene                                       | ND     | ---             | 0.0876                                              | mg/kg dry | 100              | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Toluene                                       | ND     | ---             | 0.438                                               | mg/kg dry | 100              | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Ethylbenzene                                  | ND     | ---             | 0.219                                               | mg/kg dry | 100              | ---          | 0.145         | ---   | ---          | *** | 30%       |       |
| Xylenes, total                                | 0.788  | ---             | 0.657                                               | mg/kg dry | 100              | ---          | 0.758         | ---   | ---          | 4   | 30%       |       |
| Surr: 1,4-Difluorobenzene (Surr)              |        | Recovery:       |                                                     | 102 %     | Limits: 80-120 % |              | Dilution: 1x  |       |              |     |           |       |
| Toluene-d8 (Surr)                             |        |                 |                                                     | 103 %     | 80-120 %         |              | "             |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)                   |        |                 |                                                     | 99 %      | 79-120 %         |              | "             |       |              |     |           |       |
| Duplicate (24F0521-DUP2)                      |        |                 | Prepared: 06/10/24 12:30   Analyzed: 06/15/24 18:44 |           |                  |              |               |       |              |     |           |       |
| <u>QC Source Sample: Non-SDG (A4F1137-04)</u> |        |                 |                                                     |           |                  |              |               |       |              |     |           |       |
| Benzene                                       | ND     | ---             | 0.0968                                              | mg/kg dry | 500              | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Toluene                                       | ND     | ---             | 0.484                                               | mg/kg dry | 500              | ---          | ND            | ---   | ---          | --- | 30%       |       |

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## ANALYTICAL REPORT

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16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## BTEX Compounds by EPA 8260D

| Analyte                                | Result | Detection Limit | Reporting Limit                                     | Units     | Dilution         | Spike Amount                                        | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|-----------------------------------------------------|-----------|------------------|-----------------------------------------------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0521 - EPA 5035A              |        |                 |                                                     |           |                  | Soil                                                |               |       |              |     |           |       |
| Duplicate (24F0521-DUP2)               |        |                 | Prepared: 06/10/24 12:30   Analyzed: 06/15/24 18:44 |           |                  |                                                     |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1137-04) |        |                 |                                                     |           |                  |                                                     |               |       |              |     |           |       |
| Ethylbenzene                           | 0.271  | ---             | 0.242                                               | mg/kg dry | 500              | ---                                                 | 0.271         | ---   | ---          | 0   | 30%       |       |
| Xylenes, total                         | 1.66   | ---             | 0.726                                               | mg/kg dry | 500              | ---                                                 | 1.54          | ---   | ---          | 8   | 30%       |       |
| Surr: 1,4-Difluorobenzene (Surr)       |        | Recovery:       |                                                     | 101 %     | Limits: 80-120 % |                                                     | Dilution: 1x  |       |              |     |           |       |
| Toluene-d8 (Surr)                      |        |                 |                                                     | 98 %      | 80-120 %         |                                                     | "             |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)            |        |                 |                                                     | 96 %      | 79-120 %         |                                                     | "             |       |              |     |           |       |
| Matrix Spike (24F0521-MS1)             |        |                 |                                                     |           |                  | Prepared: 06/10/24 13:40   Analyzed: 06/15/24 16:01 |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1137-08) |        |                 |                                                     |           |                  |                                                     |               |       |              |     |           |       |
| 5035A/8260D                            |        |                 |                                                     |           |                  |                                                     |               |       |              |     |           |       |
| Benzene                                | 1.16   | ---             | 0.0100                                              | mg/kg dry | 50               | 1.00                                                | ND            | 115   | 77-121%      | --- | ---       |       |
| Toluene                                | 1.05   | ---             | 0.0502                                              | mg/kg dry | 50               | 1.00                                                | ND            | 104   | 77-121%      | --- | ---       |       |
| Ethylbenzene                           | 1.09   | ---             | 0.0251                                              | mg/kg dry | 50               | 1.00                                                | ND            | 109   | 76-122%      | --- | ---       |       |
| Xylenes, total                         | 3.18   | ---             | 0.0753                                              | mg/kg dry | 50               | 3.01                                                | ND            | 105   | 78-124%      | --- | ---       |       |
| Surr: 1,4-Difluorobenzene (Surr)       |        | Recovery:       |                                                     | 100 %     | Limits: 80-120 % |                                                     | Dilution: 1x  |       |              |     |           |       |
| Toluene-d8 (Surr)                      |        |                 |                                                     | 104 %     | 80-120 %         |                                                     | "             |       |              |     |           |       |
| 4-Bromofluorobenzene (Surr)            |        |                 |                                                     | 91 %      | 79-120 %         |                                                     | "             |       |              |     |           |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polychlorinated Biphenyls by EPA 8082A

| Analyte                                | Result | Detection Limit | Reporting Limit          | Units            | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|--------------------------|------------------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0733 - EPA 3546               |        |                 |                          |                  |                          | Soil         |               |       |              |     |           |       |
| Blank (24F0733-BLK1)                   |        |                 | Prepared: 06/21/24 10:08 |                  | Analyzed: 06/21/24 18:18 |              | C-07          |       |              |     |           |       |
| EPA 8082A                              |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Aroclor 1016                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1221                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1232                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1242                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1248                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1254                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Aroclor 1260                           | ND     | ---             | 0.0100                   | mg/kg wet        | 1                        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: Decachlorobiphenyl (Surr)        |        | Recovery: 102 % |                          | Limits: 60-125 % |                          | Dilution: 1x |               |       |              |     |           |       |
| LCS (24F0733-BS1)                      |        |                 | Prepared: 06/21/24 10:08 |                  | Analyzed: 06/21/24 18:36 |              | C-07          |       |              |     |           |       |
| EPA 8082A                              |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Aroclor 1016                           | 0.185  | ---             | 0.0100                   | mg/kg wet        | 1                        | 0.250        | ---           | 74    | 47-134%      | --- | ---       |       |
| Aroclor 1260                           | 0.209  | ---             | 0.0100                   | mg/kg wet        | 1                        | 0.250        | ---           | 84    | 53-140%      | --- | ---       |       |
| Surr: Decachlorobiphenyl (Surr)        |        | Recovery: 104 % |                          | Limits: 60-125 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Duplicate (24F0733-DUP1)               |        |                 | Prepared: 06/21/24 10:08 |                  | Analyzed: 06/21/24 19:30 |              | C-07          |       |              |     |           |       |
| QC Source Sample: DP-1-2 (A4F1068-01)  |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| EPA 8082A                              |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Aroclor 1016                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1221                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1232                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1242                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1248                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1254                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | ND            | ---   | ---          | --- | 30%       |       |
| Aroclor 1260                           | ND     | ---             | 0.0107                   | mg/kg dry        | 1                        | ---          | 0.00675       | ---   | ---          | *** | 30%       |       |
| Surr: Decachlorobiphenyl (Surr)        |        | Recovery: 92 %  |                          | Limits: 60-125 % |                          | Dilution: 1x |               |       |              |     |           |       |
| Matrix Spike (24F0733-MS1)             |        |                 | Prepared: 06/21/24 10:08 |                  | Analyzed: 06/21/24 22:27 |              | C-07          |       |              |     |           |       |
| QC Source Sample: DP-6-10 (A4F1068-12) |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| EPA 8082A                              |        |                 |                          |                  |                          |              |               |       |              |     |           |       |
| Aroclor 1016                           | 0.167  | ---             | 0.00955                  | mg/kg dry        | 1                        | 0.239        | ND            | 70    | 47-134%      | --- | ---       |       |
| Aroclor 1260                           | 0.211  | ---             | 0.00955                  | mg/kg dry        | 1                        | 0.239        | 0.0458        | 69    | 53-140%      | --- | ---       |       |

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ANALYTICAL REPORT

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**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A  
Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

| Analyte                                | Result | Detection Limit | Reporting Limit                                     | Units          | Dilution | Spike Amount     | Source Result | % REC        | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|-----------------------------------------------------|----------------|----------|------------------|---------------|--------------|--------------|-----|-----------|-------|
| Batch 24F0733 - EPA 3546               |        |                 |                                                     |                |          |                  | Soil          |              |              |     |           |       |
| Matrix Spike (24F0733-MS1)             |        |                 | Prepared: 06/21/24 10:08   Analyzed: 06/21/24 22:27 |                |          |                  |               |              |              |     |           | C-07  |
| QC Source Sample: DP-6-10 (A4F1068-12) |        |                 |                                                     |                |          |                  |               |              |              |     |           |       |
| Surr: Decachlorobiphenyl (Surr)        |        |                 |                                                     | Recovery: 93 % |          | Limits: 60-125 % |               | Dilution: 1x |              |     |           |       |

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Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                       | Result | Detection Limit | Reporting Limit                                      | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|--------|-----------------|------------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0387 - EPA 3546      |        |                 |                                                      |                  |          | Soil         |               |       |              |     |           |       |
| Blank (24F0387-BLK1)          |        |                 | Prepared: 06/12/24 05:59    Analyzed: 06/12/24 10:29 |                  |          |              |               |       |              |     |           |       |
| EPA 8270E SIM                 |        |                 |                                                      |                  |          |              |               |       |              |     |           |       |
| Acenaphthene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Acenaphthylene                | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Anthracene                    | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benz(a)anthracene             | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(a)pyrene                | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(b)fluoranthene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(k)fluoranthene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Benzo(g,h,i)perylene          | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Chrysene                      | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Dibenz(a,h)anthracene         | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Fluoranthene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Fluorene                      | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene        | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| 1-Methylnaphthalene           | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| 2-Methylnaphthalene           | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Naphthalene                   | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Phenanthrene                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Pyrene                        | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Dibenzofuran                  | ND     | ---             | 0.0100                                               | mg/kg wet        | 1        | ---          | ---           | ---   | ---          | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr) |        | Recovery: 85 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)        |        | 86 %            |                                                      | 54-127 %         |          | "            |               |       |              |     |           |       |

## LCS (24F0387-BS1)

Prepared: 06/12/24 05:59 Analyzed: 06/12/24 10:54

## EPA 8270E SIM

|                      |       |     |        |           |   |       |     |     |         |     |     |
|----------------------|-------|-----|--------|-----------|---|-------|-----|-----|---------|-----|-----|
| Acenaphthene         | 0.797 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 100 | 40-123% | --- | --- |
| Acenaphthylene       | 0.728 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 91  | 32-132% | --- | --- |
| Anthracene           | 0.747 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 93  | 47-123% | --- | --- |
| Benz(a)anthracene    | 0.718 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 90  | 49-126% | --- | --- |
| Benzo(a)pyrene       | 0.754 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 94  | 45-129% | --- | --- |
| Benzo(b)fluoranthene | 0.715 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 89  | 45-132% | --- | --- |
| Benzo(k)fluoranthene | 0.805 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 101 | 47-132% | --- | --- |
| Benzo(g,h,i)perylene | 0.765 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 96  | 43-134% | --- | --- |
| Chrysene             | 0.795 | --- | 0.0100 | mg/kg wet | 1 | 0.800 | --- | 99  | 50-124% | --- | --- |

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                       | Result | Detection Limit | Reporting Limit | Units            | Dilution | Spike Amount                                      | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-------------------------------|--------|-----------------|-----------------|------------------|----------|---------------------------------------------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0387 - EPA 3546      |        |                 |                 |                  |          | Soil                                              |               |       |              |     |           |       |
| LCS (24F0387-BS1)             |        |                 |                 |                  |          | Prepared: 06/12/24 05:59 Analyzed: 06/12/24 10:54 |               |       |              |     |           |       |
| Dibenz(a,h)anthracene         | 0.821  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 103   | 45-134%      | --- | ---       |       |
| Fluoranthene                  | 0.779  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 97    | 50-127%      | --- | ---       |       |
| Fluorene                      | 0.727  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 91    | 43-125%      | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene        | 0.802  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 100   | 45-133%      | --- | ---       |       |
| 1-Methylnaphthalene           | 0.725  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 91    | 40-120%      | --- | ---       |       |
| 2-Methylnaphthalene           | 0.744  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 93    | 38-122%      | --- | ---       |       |
| Naphthalene                   | 0.736  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 92    | 35-123%      | --- | ---       |       |
| Phenanthrene                  | 0.758  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 95    | 50-121%      | --- | ---       |       |
| Pyrene                        | 0.798  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 100   | 47-127%      | --- | ---       |       |
| Dibenzofuran                  | 0.730  | ---             | 0.0100          | mg/kg wet        | 1        | 0.800                                             | ---           | 91    | 44-120%      | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr) |        | Recovery: 89 %  |                 | Limits: 44-120 % |          | Dilution: 1x                                      |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)        |        | 89 %            |                 | 54-127 %         |          | "                                                 |               |       |              |     |           |       |

## Duplicate (24F0387-DUP1)

Prepared: 06/12/24 05:59 Analyzed: 06/12/24 11:44

## QC Source Sample: Non-SDG (A4F0982-01)

|                        |    |     |       |           |   |     |    |     |     |     |     |
|------------------------|----|-----|-------|-----------|---|-----|----|-----|-----|-----|-----|
| Acenaphthene           | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Acenaphthylene         | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Anthracene             | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Benz(a)anthracene      | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Benzo(a)pyrene         | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Benzo(b)fluoranthene   | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Benzo(k)fluoranthene   | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Benzo(g,h,i)perylene   | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Chrysene               | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Dibenz(a,h)anthracene  | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Fluoranthene           | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Fluorene               | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Indeno(1,2,3-cd)pyrene | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| 1-Methylnaphthalene    | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| 2-Methylnaphthalene    | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Naphthalene            | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Phenanthrene           | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Pyrene                 | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |
| Dibenzofuran           | ND | --- | 0.136 | mg/kg dry | 1 | --- | ND | --- | --- | --- | 30% |

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Tigard, OR 97224Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)

| Analyte                                | Result | Detection Limit | Reporting Limit                                      | Units            | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|----------------------------------------|--------|-----------------|------------------------------------------------------|------------------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0387 - EPA 3546               |        |                 |                                                      |                  |          | Soil         |               |       |              |     |           |       |
| Duplicate (24F0387-DUP1)               |        |                 | Prepared: 06/12/24 05:59    Analyzed: 06/12/24 11:44 |                  |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F0982-01) |        |                 |                                                      |                  |          |              |               |       |              |     |           |       |
| Surr: 2-Fluorobiphenyl (Surr)          |        | Recovery: 85 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)                 |        | 86 %            |                                                      | 54-127 %         |          | "            |               |       |              |     |           |       |
| Matrix Spike (24F0387-MS1)             |        |                 | Prepared: 06/12/24 05:59    Analyzed: 06/12/24 12:35 |                  |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-2-9 (A4F1068-05)  |        |                 |                                                      |                  |          |              |               |       |              |     |           |       |
| EPA 8270E SIM                          |        |                 |                                                      |                  |          |              |               |       |              |     |           |       |
| Acenaphthene                           | 0.733  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 95    | 40-123%      | --- | ---       |       |
| Acenaphthylene                         | 0.675  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 87    | 32-132%      | --- | ---       |       |
| Anthracene                             | 0.697  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 90    | 47-123%      | --- | ---       |       |
| Benz(a)anthracene                      | 0.656  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 85    | 49-126%      | --- | ---       |       |
| Benzo(a)pyrene                         | 0.697  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 90    | 45-129%      | --- | ---       |       |
| Benzo(b)fluoranthene                   | 0.668  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 86    | 45-132%      | --- | ---       |       |
| Benzo(k)fluoranthene                   | 0.709  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 92    | 47-132%      | --- | ---       |       |
| Benzo(g,h,i)perylene                   | 0.675  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 87    | 43-134%      | --- | ---       |       |
| Chrysene                               | 0.724  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 94    | 50-124%      | --- | ---       |       |
| Dibenz(a,h)anthracene                  | 0.728  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 94    | 45-134%      | --- | ---       |       |
| Fluoranthene                           | 0.738  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 96    | 50-127%      | --- | ---       |       |
| Fluorene                               | 0.675  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 87    | 43-125%      | --- | ---       |       |
| Indeno(1,2,3-cd)pyrene                 | 0.712  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 92    | 45-133%      | --- | ---       |       |
| 1-Methylnaphthalene                    | 0.666  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 86    | 40-120%      | --- | ---       |       |
| 2-Methylnaphthalene                    | 0.685  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 89    | 38-122%      | --- | ---       |       |
| Naphthalene                            | 0.683  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 88    | 35-123%      | --- | ---       |       |
| Phenanthrene                           | 0.700  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 91    | 50-121%      | --- | ---       |       |
| Pyrene                                 | 0.741  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 96    | 47-127%      | --- | ---       |       |
| Dibenzofuran                           | 0.674  | ---             | 0.00966                                              | mg/kg dry        | 1        | 0.773        | ND            | 87    | 44-120%      | --- | ---       |       |
| Surr: 2-Fluorobiphenyl (Surr)          |        | Recovery: 85 %  |                                                      | Limits: 44-120 % |          | Dilution: 1x |               |       |              |     |           |       |
| p-Terphenyl-d14 (Surr)                 |        | 82 %            |                                                      | 54-127 %         |          | "            |               |       |              |     |           |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

| Analyte                               | Result | Detection Limit | Reporting Limit          | Units     | Dilution                 | Spike Amount | Source Result | % REC | Limits  | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|--------------------------|-----------|--------------------------|--------------|---------------|-------|---------|-----|-----------|-------|
| Batch 24F0691 - EPA 3051A             |        |                 |                          |           |                          | Soil         |               |       |         |     |           |       |
| Blank (24F0691-BLK1)                  |        |                 | Prepared: 06/20/24 10:36 |           | Analyzed: 06/20/24 18:55 |              |               |       |         |     |           |       |
| EPA 6020B                             |        |                 |                          |           |                          |              |               |       |         |     |           |       |
| Arsenic                               | ND     | ---             | 1.00                     | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Barium                                | ND     | ---             | 1.00                     | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Cadmium                               | ND     | ---             | 0.200                    | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Chromium                              | ND     | ---             | 1.00                     | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Lead                                  | ND     | ---             | 0.200                    | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Mercury                               | ND     | ---             | 0.0800                   | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Selenium                              | ND     | ---             | 1.00                     | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| Silver                                | ND     | ---             | 0.200                    | mg/kg wet | 10                       | ---          | ---           | ---   | ---     | --- | ---       |       |
| LCS (24F0691-BS1)                     |        |                 | Prepared: 06/20/24 10:36 |           | Analyzed: 06/20/24 19:05 |              |               |       |         |     |           |       |
| EPA 6020B                             |        |                 |                          |           |                          |              |               |       |         |     |           |       |
| Arsenic                               | 52.5   | ---             | 1.00                     | mg/kg wet | 10                       | 50.0         | ---           | 105   | 80-120% | --- | ---       |       |
| Barium                                | 54.2   | ---             | 1.00                     | mg/kg wet | 10                       | 50.0         | ---           | 108   | 80-120% | --- | ---       |       |
| Cadmium                               | 53.6   | ---             | 0.200                    | mg/kg wet | 10                       | 50.0         | ---           | 107   | 80-120% | --- | ---       |       |
| Chromium                              | 51.6   | ---             | 1.00                     | mg/kg wet | 10                       | 50.0         | ---           | 103   | 80-120% | --- | ---       |       |
| Lead                                  | 55.9   | ---             | 0.200                    | mg/kg wet | 10                       | 50.0         | ---           | 112   | 80-120% | --- | ---       |       |
| Mercury                               | 1.11   | ---             | 0.0800                   | mg/kg wet | 10                       | 1.00         | ---           | 111   | 80-120% | --- | ---       |       |
| Selenium                              | 26.1   | ---             | 1.00                     | mg/kg wet | 10                       | 25.0         | ---           | 105   | 80-120% | --- | ---       |       |
| Silver                                | 26.2   | ---             | 0.200                    | mg/kg wet | 10                       | 25.0         | ---           | 105   | 80-120% | --- | ---       |       |
| Duplicate (24F0691-DUP1)              |        |                 | Prepared: 06/20/24 10:36 |           | Analyzed: 06/20/24 19:16 |              |               |       |         |     |           |       |
| QC Source Sample: DP-1-2 (A4F1068-01) |        |                 |                          |           |                          |              |               |       |         |     |           |       |
| EPA 6020B                             |        |                 |                          |           |                          |              |               |       |         |     |           |       |
| Arsenic                               | 1.86   | ---             | 1.33                     | mg/kg dry | 10                       | ---          | 3.67          | ---   | ---     | 65  | 20%       | Q-05  |
| Barium                                | 51.8   | ---             | 1.33                     | mg/kg dry | 10                       | ---          | 72.4          | ---   | ---     | 33  | 20%       | Q-04  |
| Cadmium                               | ND     | ---             | 0.266                    | mg/kg dry | 10                       | ---          | 0.386         | ---   | ---     | *** | 20%       | Q-05  |
| Chromium                              | 4.06   | ---             | 1.33                     | mg/kg dry | 10                       | ---          | 8.37          | ---   | ---     | 69  | 20%       | Q-04  |
| Lead                                  | 61.6   | ---             | 0.266                    | mg/kg dry | 10                       | ---          | 140           | ---   | ---     | 78  | 20%       | Q-04  |
| Mercury                               | ND     | ---             | 0.106                    | mg/kg dry | 10                       | ---          | 0.151         | ---   | ---     | *** | 20%       | Q-05  |
| Selenium                              | ND     | ---             | 1.33                     | mg/kg dry | 10                       | ---          | ND            | ---   | ---     | --- | 20%       |       |
| Silver                                | ND     | ---             | 0.266                    | mg/kg dry | 10                       | ---          | ND            | ---   | ---     | --- | 20%       |       |
| Matrix Spike (24F0691-MS1)            |        |                 | Prepared: 06/20/24 10:36 |           | Analyzed: 06/20/24 19:22 |              |               |       |         |     |           |       |

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## ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Total Metals by EPA 6020B (ICPMS)

| Analyte                               | Result | Detection Limit | Reporting Limit                                     | Units     | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|---------------------------------------|--------|-----------------|-----------------------------------------------------|-----------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0691 - EPA 3051A             |        |                 |                                                     |           |          | Soil         |               |       |              |     |           |       |
| Matrix Spike (24F0691-MS1)            |        |                 | Prepared: 06/20/24 10:36   Analyzed: 06/20/24 19:22 |           |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-1-2 (A4F1068-01) |        |                 |                                                     |           |          |              |               |       |              |     |           |       |
| EPA 6020B                             |        |                 |                                                     |           |          |              |               |       |              |     |           |       |
| Arsenic                               | 67.5   | ---             | 1.22                                                | mg/kg dry | 10       | 60.9         | 3.67          | 105   | 75-125%      | --- | ---       |       |
| Barium                                | 142    | ---             | 1.22                                                | mg/kg dry | 10       | 60.9         | 72.4          | 114   | 75-125%      | --- | ---       |       |
| Cadmium                               | 66.1   | ---             | 0.244                                               | mg/kg dry | 10       | 60.9         | 0.386         | 108   | 75-125%      | --- | ---       |       |
| Chromium                              | 72.6   | ---             | 1.22                                                | mg/kg dry | 10       | 60.9         | 8.37          | 106   | 75-125%      | --- | ---       |       |
| Lead                                  | 193    | ---             | 0.244                                               | mg/kg dry | 10       | 60.9         | 140           | 88    | 75-125%      | --- | ---       |       |
| Mercury                               | 1.45   | ---             | 0.0974                                              | mg/kg dry | 10       | 1.22         | 0.151         | 107   | 75-125%      | --- | ---       |       |
| Selenium                              | 30.9   | ---             | 1.22                                                | mg/kg dry | 10       | 30.4         | ND            | 102   | 75-125%      | --- | ---       |       |
| Silver                                | 32.4   | ---             | 0.244                                               | mg/kg dry | 10       | 30.4         | ND            | 106   | 75-125%      | --- | ---       |       |

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## ANALYTICAL REPORT

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ORELAP ID: OR100062

## GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: OMSI

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

## Report ID:

A4F1068 - 08 06 24 1656

## QUALITY CONTROL (QC) SAMPLE RESULTS

## TCLP Metals by EPA 6020B (ICPMS)

| Analyte                                       | Result | Detection Limit | Reporting Limit          | Units | Dilution                 | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|-----------------------------------------------|--------|-----------------|--------------------------|-------|--------------------------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24G0336 - EPA 1311/3015A                |        |                 |                          |       |                          | Soil         |               |       |              |     |           |       |
| Blank (24G0336-BLK1)                          |        |                 | Prepared: 07/11/24 11:11 |       | Analyzed: 07/11/24 19:28 |              |               |       |              |     |           |       |
| <u>1311/6020B</u>                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                      | ND     | ---             | 0.100                    | mg/L  | 10                       | ---          | ---           | ---   | ---          | --- | ---       | TCLP  |
| Lead                                          | ND     | ---             | 0.0500                   | mg/L  | 10                       | ---          | ---           | ---   | ---          | --- | ---       | TCLP  |
| LCS (24G0336-BS1)                             |        |                 | Prepared: 07/11/24 11:11 |       | Analyzed: 07/11/24 19:33 |              |               |       |              |     |           |       |
| <u>1311/6020B</u>                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                      | 5.26   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ---           | 105   | 80-120%      | --- | ---       | TCLP  |
| Lead                                          | 5.24   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ---           | 105   | 80-120%      | --- | ---       | TCLP  |
| Duplicate (24G0336-DUP1)                      |        |                 | Prepared: 07/11/24 11:11 |       | Analyzed: 07/11/24 19:44 |              |               |       |              |     |           |       |
| <u>QC Source Sample: DP-1-2 (A4F1068-01)</u>  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| <u>1311/6020B</u>                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                      | ND     | ---             | 0.100                    | mg/L  | 10                       | ---          | ND            | ---   | ---          | --- | 20%       |       |
| Lead                                          | ND     | ---             | 0.0500                   | mg/L  | 10                       | ---          | ND            | ---   | ---          | --- | 20%       |       |
| Matrix Spike (24G0336-MS1)                    |        |                 | Prepared: 07/11/24 11:11 |       | Analyzed: 07/11/24 19:49 |              |               |       |              |     |           |       |
| <u>QC Source Sample: DP-1-2 (A4F1068-01)</u>  |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| <u>1311/6020B</u>                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                      | 5.33   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 107   | 50-150%      | --- | ---       |       |
| Lead                                          | 5.56   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ND            | 111   | 50-150%      | --- | ---       |       |
| Matrix Spike (24G0336-MS2)                    |        |                 | Prepared: 07/11/24 11:11 |       | Analyzed: 07/11/24 20:28 |              |               |       |              |     |           |       |
| <u>QC Source Sample: Non-SDG (A4G0917-02)</u> |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| <u>1311/6020B</u>                             |        |                 |                          |       |                          |              |               |       |              |     |           |       |
| Chromium                                      | 5.52   | ---             | 0.100                    | mg/L  | 10                       | 5.00         | ND            | 110   | 50-150%      | --- | ---       |       |
| Lead                                          | 5.89   | ---             | 0.0500                   | mg/L  | 10                       | 5.00         | ND            | 118   | 50-150%      | --- | ---       |       |

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## ANALYTICAL REPORT

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Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656**

## QUALITY CONTROL (QC) SAMPLE RESULTS

## Percent Dry Weight

| Analyte                                          | Result | Detection Limit | Reporting Limit                                     | Units | Dilution | Spike Amount | Source Result | % REC | % REC Limits | RPD | RPD Limit | Notes |
|--------------------------------------------------|--------|-----------------|-----------------------------------------------------|-------|----------|--------------|---------------|-------|--------------|-----|-----------|-------|
| Batch 24F0402 - Total Solids (Dry Weight) - 2022 |        |                 |                                                     |       |          |              | Soil          |       |              |     |           |       |
| Duplicate (24F0402-DUP1)                         |        |                 | Prepared: 06/12/24 09:07   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-1-2 (A4F1068-01)            |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 91.3   | ---             | 1.00                                                | %     | 1        | ---          | 83.1          | ---   | ---          | 9   | 10%       |       |
| Duplicate (24F0402-DUP2)                         |        |                 | Prepared: 06/12/24 09:07   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-1-10 (A4F1068-02)           |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 88.2   | ---             | 1.00                                                | %     | 1        | ---          | 88.5          | ---   | ---          | 0.4 | 10%       |       |
| Duplicate (24F0402-DUP3)                         |        |                 | Prepared: 06/12/24 09:07   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-1-20 (A4F1068-03)           |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 94.1   | ---             | 1.00                                                | %     | 1        | ---          | 94.4          | ---   | ---          | 0.3 | 10%       |       |
| Duplicate (24F0402-DUP4)                         |        |                 | Prepared: 06/12/24 09:07   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-2-2 (A4F1068-04)            |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 81.0   | ---             | 1.00                                                | %     | 1        | ---          | 81.1          | ---   | ---          | 0.2 | 10%       |       |
| Duplicate (24F0402-DUP5)                         |        |                 | Prepared: 06/12/24 09:07   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: DP-2-9 (A4F1068-05)            |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| EPA 8000D                                        |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 87.7   | ---             | 1.00                                                | %     | 1        | ---          | 90.7          | ---   | ---          | 3   | 10%       |       |
| Duplicate (24F0402-DUP6)                         |        |                 | Prepared: 06/12/24 19:11   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1143-01)           |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 91.0   | ---             | 1.00                                                | %     | 1        | ---          | 91.1          | ---   | ---          | 0.2 | 10%       |       |
| Duplicate (24F0402-DUP7)                         |        |                 | Prepared: 06/12/24 19:11   Analyzed: 06/13/24 07:29 |       |          |              |               |       |              |     |           |       |
| QC Source Sample: Non-SDG (A4F1144-02)           |        |                 |                                                     |       |          |              |               |       |              |     |           |       |
| % Solids                                         | 78.4   | ---             | 1.00                                                | %     | 1        | ---          | 76.6          | ---   | ---          | 2   | 10%       |       |

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ANALYTICAL REPORT

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503-718-2323

ORELAP ID: OR100062

GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: OMSI

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

| Analyte | Result | Detection<br>Limit | Reporting<br>Limit | Units | Dilution | Spike<br>Amount | Source<br>Result | % REC | % REC<br>Limits | RPD | RPD<br>Limit | Notes |
|---------|--------|--------------------|--------------------|-------|----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|
|---------|--------|--------------------|--------------------|-------|----------|-----------------|------------------|-------|-----------------|-----|--------------|-------|

No Client related Batch QC samples analyzed for this batch. See notes page for more information.

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

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Tigard, OR 97223

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ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**Prep: EPA 3546 (Fuels)

| Lab Number            | Matrix | Method   | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24F0439</u> |        |          |                |                |                         |                          |                   |
| A4F1068-01            | Soil   | NWTPH-Dx | 06/10/24 09:20 | 06/13/24 09:02 | 11.07g/5mL              | 10g/5mL                  | 0.90              |
| A4F1068-02            | Soil   | NWTPH-Dx | 06/10/24 09:34 | 06/13/24 09:02 | 11.05g/5mL              | 10g/5mL                  | 0.91              |
| A4F1068-04RE1         | Soil   | NWTPH-Dx | 06/10/24 10:14 | 06/13/24 09:02 | 11.09g/5mL              | 10g/5mL                  | 0.90              |
| A4F1068-06            | Soil   | NWTPH-Dx | 06/10/24 10:48 | 06/13/24 09:02 | 11.53g/5mL              | 10g/5mL                  | 0.87              |
| A4F1068-07RE1         | Soil   | NWTPH-Dx | 06/10/24 11:14 | 06/13/24 09:02 | 11.22g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-08            | Soil   | NWTPH-Dx | 06/10/24 12:05 | 06/13/24 09:02 | 11.27g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-09            | Soil   | NWTPH-Dx | 06/10/24 12:11 | 06/13/24 09:02 | 11.44g/5mL              | 10g/5mL                  | 0.87              |
| A4F1068-10            | Soil   | NWTPH-Dx | 06/10/24 12:15 | 06/13/24 09:02 | 11.28g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-11            | Soil   | NWTPH-Dx | 06/10/24 11:30 | 06/13/24 09:02 | 11.19g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-12            | Soil   | NWTPH-Dx | 06/10/24 11:48 | 06/13/24 09:02 | 11.5g/5mL               | 10g/5mL                  | 0.87              |
| <u>Batch: 24F0681</u> |        |          |                |                |                         |                          |                   |
| A4F1068-03            | Soil   | NWTPH-Dx | 06/10/24 09:50 | 06/20/24 07:11 | 11.09g/5mL              | 10g/5mL                  | 0.90              |
| A4F1068-05            | Soil   | NWTPH-Dx | 06/10/24 10:31 | 06/20/24 07:11 | 11.06g/5mL              | 10g/5mL                  | 0.90              |

**Gasoline Range Hydrocarbons (Benzene through Naphthalene) by NWTPH-Gx**Prep: EPA 5035A

| Lab Number            | Matrix | Method        | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|---------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24F0521</u> |        |               |                |                |                         |                          |                   |
| A4F1068-03            | Soil   | NWTPH-Gx (MS) | 06/10/24 09:50 | 06/10/24 09:50 | 16.89g/15mL             | 5g/5mL                   | 0.89              |
| A4F1068-05            | Soil   | NWTPH-Gx (MS) | 06/10/24 10:31 | 06/10/24 10:31 | 11.74g/10mL             | 5g/5mL                   | 0.85              |

**BTEX Compounds by EPA 8260D**Prep: EPA 5035A

| Lab Number            | Matrix | Method      | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24F0521</u> |        |             |                |                |                         |                          |                   |
| A4F1068-03            | Soil   | 5035A/8260D | 06/10/24 09:50 | 06/10/24 09:50 | 16.89g/15mL             | 5g/5mL                   | 0.89              |
| A4F1068-05            | Soil   | 5035A/8260D | 06/10/24 10:31 | 06/10/24 10:31 | 11.74g/10mL             | 5g/5mL                   | 0.85              |

**Polychlorinated Biphenyls by EPA 8082A**Prep: EPA 3546

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <u>Batch: 24F0733</u> |        |           |                |                |                         |                          |                   |
| A4F1068-01            | Soil   | EPA 8082A | 06/10/24 09:20 | 06/21/24 10:08 | 11.19g/5mL              | 10g/5mL                  | 0.89              |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**6700 S.W. Sandburg Street  
Tigard, OR 97223  
503-718-2323  
ORELAP ID: OR100062**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656****SAMPLE PREPARATION INFORMATION****Polychlorinated Biphenyls by EPA 8082A****Prep: EPA 3546**

| Lab Number | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| A4F1068-02 | Soil   | EPA 8082A | 06/10/24 09:34 | 06/21/24 10:08 | 11.13g/5mL              | 10g/5mL                  | 0.90              |
| A4F1068-03 | Soil   | EPA 8082A | 06/10/24 09:50 | 06/21/24 10:08 | 11.15g/5mL              | 10g/5mL                  | 0.90              |
| A4F1068-04 | Soil   | EPA 8082A | 06/10/24 10:14 | 06/21/24 10:08 | 11.25g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-05 | Soil   | EPA 8082A | 06/10/24 10:31 | 06/21/24 10:08 | 11.46g/5mL              | 10g/5mL                  | 0.87              |
| A4F1068-06 | Soil   | EPA 8082A | 06/10/24 10:48 | 06/21/24 10:08 | 11.3g/5mL               | 10g/5mL                  | 0.89              |
| A4F1068-07 | Soil   | EPA 8082A | 06/10/24 11:14 | 06/21/24 10:08 | 11.43g/5mL              | 10g/5mL                  | 0.88              |
| A4F1068-08 | Soil   | EPA 8082A | 06/10/24 12:05 | 06/21/24 10:08 | 11.36g/5mL              | 10g/5mL                  | 0.88              |
| A4F1068-09 | Soil   | EPA 8082A | 06/10/24 12:11 | 06/21/24 10:08 | 11.34g/5mL              | 10g/5mL                  | 0.88              |
| A4F1068-10 | Soil   | EPA 8082A | 06/10/24 12:15 | 06/21/24 10:08 | 11.41g/5mL              | 10g/5mL                  | 0.88              |
| A4F1068-11 | Soil   | EPA 8082A | 06/10/24 11:30 | 06/21/24 10:08 | 11.29g/5mL              | 10g/5mL                  | 0.89              |
| A4F1068-12 | Soil   | EPA 8082A | 06/10/24 11:48 | 06/21/24 10:08 | 11.31g/5mL              | 10g/5mL                  | 0.88              |

**Polyaromatic Hydrocarbons (PAHs) by EPA 8270E (SIM)****Prep: EPA 3546**

| Lab Number            | Matrix | Method        | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|---------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24F0387</b> |        |               |                |                |                         |                          |                   |
| A4F1068-03            | Soil   | EPA 8270E SIM | 06/10/24 09:50 | 06/12/24 05:59 | 11.54g/5mL              | 10g/5mL                  | 0.87              |
| A4F1068-05            | Soil   | EPA 8270E SIM | 06/10/24 10:31 | 06/12/24 05:59 | 11.68g/5mL              | 10g/5mL                  | 0.86              |

**Total Metals by EPA 6020B (ICPMS)****Prep: EPA 3051A**

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24F0691</b> |        |           |                |                |                         |                          |                   |
| A4F1068-01            | Soil   | EPA 6020B | 06/10/24 09:20 | 06/20/24 10:36 | 0.475g/50mL             | 0.5g/50mL                | 1.05              |
| A4F1068-02            | Soil   | EPA 6020B | 06/10/24 09:34 | 06/20/24 10:36 | 0.51g/50mL              | 0.5g/50mL                | 0.98              |
| A4F1068-03            | Soil   | EPA 6020B | 06/10/24 09:50 | 06/20/24 10:36 | 0.499g/50mL             | 0.5g/50mL                | 1.00              |
| A4F1068-04            | Soil   | EPA 6020B | 06/10/24 10:14 | 06/20/24 10:36 | 0.499g/50mL             | 0.5g/50mL                | 1.00              |
| A4F1068-05            | Soil   | EPA 6020B | 06/10/24 10:31 | 06/20/24 10:36 | 0.474g/50mL             | 0.5g/50mL                | 1.05              |
| A4F1068-06            | Soil   | EPA 6020B | 06/10/24 10:48 | 06/20/24 10:36 | 0.47g/50mL              | 0.5g/50mL                | 1.06              |
| A4F1068-07            | Soil   | EPA 6020B | 06/10/24 11:14 | 06/20/24 10:36 | 0.5g/50mL               | 0.5g/50mL                | 1.00              |
| A4F1068-07RE1         | Soil   | EPA 6020B | 06/10/24 11:14 | 06/20/24 10:36 | 0.5g/50mL               | 0.5g/50mL                | 1.00              |
| A4F1068-08            | Soil   | EPA 6020B | 06/10/24 12:05 | 06/20/24 10:36 | 0.498g/50mL             | 0.5g/50mL                | 1.00              |
| A4F1068-08RE1         | Soil   | EPA 6020B | 06/10/24 12:05 | 06/20/24 10:36 | 0.498g/50mL             | 0.5g/50mL                | 1.00              |
| A4F1068-09            | Soil   | EPA 6020B | 06/10/24 12:11 | 06/20/24 10:36 | 0.51g/50mL              | 0.5g/50mL                | 0.98              |
| A4F1068-09RE1         | Soil   | EPA 6020B | 06/10/24 12:11 | 06/20/24 10:36 | 0.51g/50mL              | 0.5g/50mL                | 0.98              |

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**ANALYTICAL REPORT****Apex Laboratories, LLC**

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224Project: **OMSI**Project Number: **Crescent Parcel/6909-A**Project Manager: **Greg Martin****Report ID:****A4F1068 - 08 06 24 1656****SAMPLE PREPARATION INFORMATION****Total Metals by EPA 6020B (ICPMS)****Prep: EPA 3051A**

| Lab Number    | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|---------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| A4F1068-10    | Soil   | EPA 6020B | 06/10/24 12:15 | 06/20/24 10:36 | 0.485g/50mL             | 0.5g/50mL                | 1.03              |
| A4F1068-10RE1 | Soil   | EPA 6020B | 06/10/24 12:15 | 06/20/24 10:36 | 0.485g/50mL             | 0.5g/50mL                | 1.03              |
| A4F1068-11    | Soil   | EPA 6020B | 06/10/24 11:30 | 06/20/24 10:36 | 0.48g/50mL              | 0.5g/50mL                | 1.04              |
| A4F1068-12    | Soil   | EPA 6020B | 06/10/24 11:48 | 06/20/24 10:36 | 0.461g/50mL             | 0.5g/50mL                | 1.08              |

**TCLP Metals by EPA 6020B (ICPMS)****Prep: EPA 1311/3015A**

| Lab Number            | Matrix | Method     | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|------------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24G0336</b> |        |            |                |                |                         |                          |                   |
| A4F1068-01            | Soil   | 1311/6020B | 06/10/24 09:20 | 07/11/24 11:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4F1068-07RE1         | Soil   | 1311/6020B | 06/10/24 11:14 | 07/11/24 11:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4F1068-11            | Soil   | 1311/6020B | 06/10/24 11:30 | 07/11/24 11:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4F1068-11RE1         | Soil   | 1311/6020B | 06/10/24 11:30 | 07/11/24 11:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |
| A4F1068-12            | Soil   | 1311/6020B | 06/10/24 11:48 | 07/11/24 11:11 | 10mL/50mL               | 10mL/50mL                | 1.00              |

**Percent Dry Weight****Prep: Total Solids (Dry Weight) - 2022**

| Lab Number            | Matrix | Method    | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|-----------------------|--------|-----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| <b>Batch: 24F0402</b> |        |           |                |                |                         |                          |                   |
| A4F1068-01            | Soil   | EPA 8000D | 06/10/24 09:20 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-02            | Soil   | EPA 8000D | 06/10/24 09:34 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-03            | Soil   | EPA 8000D | 06/10/24 09:50 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-04            | Soil   | EPA 8000D | 06/10/24 10:14 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-05            | Soil   | EPA 8000D | 06/10/24 10:31 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-06            | Soil   | EPA 8000D | 06/10/24 10:48 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-07            | Soil   | EPA 8000D | 06/10/24 11:14 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-08            | Soil   | EPA 8000D | 06/10/24 12:05 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-09            | Soil   | EPA 8000D | 06/10/24 12:11 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-10            | Soil   | EPA 8000D | 06/10/24 12:15 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-11            | Soil   | EPA 8000D | 06/10/24 11:30 | 06/12/24 09:07 |                         |                          | NA                |
| A4F1068-12            | Soil   | EPA 8000D | 06/10/24 11:48 | 06/12/24 09:07 |                         |                          | NA                |

**TCLP Extraction by EPA 1311**

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ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

SAMPLE PREPARATION INFORMATION

TCLP Extraction by EPA 1311

Prep: EPA 1311 (TCLP)

| Lab Number     | Matrix | Method   | Sampled        | Prepared       | Sample<br>Initial/Final | Default<br>Initial/Final | RL Prep<br>Factor |
|----------------|--------|----------|----------------|----------------|-------------------------|--------------------------|-------------------|
| Batch: 24G0243 |        |          |                |                |                         |                          |                   |
| A4F1068-01     | Soil   | EPA 1311 | 06/10/24 09:20 | 07/09/24 16:13 | 100.1g/2019g            | 100g/2000g               | NA                |
| A4F1068-07     | Soil   | EPA 1311 | 06/10/24 11:14 | 07/09/24 16:13 | 100.3g/2007g            | 100g/2000g               | NA                |
| A4F1068-11     | Soil   | EPA 1311 | 06/10/24 11:30 | 07/09/24 16:13 | 100.2g/2009g            | 100g/2000g               | NA                |
| A4F1068-12     | Soil   | EPA 1311 | 06/10/24 11:48 | 07/09/24 16:13 | 100.5g/2010g            | 100g/2000g               | NA                |

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503-718-2323  
ORELAP ID: OR100062

**GRI**

16520 SW Upper Boones Ferry Rd, Ste 100  
Tigard, OR 97224

Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**  
Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

## QUALIFIER DEFINITIONS

### Client Sample and Quality Control (QC) Sample Qualifier Definitions:

#### Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- P-09** Due to weathering and/or the presence of an unknown mixture of PCB Congeners, the pattern does not match the standard used for calibration. Results are Estimated and based on the closest matching Aroclor.
- P-12** Result estimated due to the presence of multiple PCB Aroclors and/or PCB congeners not defined as Aroclors.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-05** Analyses are not controlled on RPD values from sample and duplicate concentrations that are below 5 times the reporting level.
- Q-39** Results for sample duplicate are higher than the sample results. See duplicate results in QC section of the report.
- Q-42** Matrix Spike and/or Duplicate analysis was performed on this sample. % Recovery or RPD for this analyte is outside laboratory control limits. (Refer to the QC Section of Analytical Report.)
- S-05** Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
- TCLP** This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 24G0243.

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Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

### REPORTING NOTES AND CONVENTIONS:

**Abbreviations:**

DET Analyte DETECTED at or above the detection or reporting limit.  
ND Analyte NOT DETECTED at or above the detection or reporting limit.  
NR Result Not Reported  
RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

**Detection Limits: Limit of Detection (LOD)**

Limits of Detection (LODs) are normally set at a level of one half the validated Limit of Quantitation (LOQ).  
If no value is listed ('-----'), then the data has not been evaluated below the Reporting Limit.

**Reporting Limits: Limit of Quantitation (LOQ)**

Validated Limits of Quantitation (LOQs) are reported as the Reporting Limits for all analyses where the LOQ, MRL, PQL or CRL are requested. The LOQ represents a level at or above the low point of the calibration curve, that has been validated according to Apex Laboratories' comprehensive LOQ policies and procedures.

**Reporting Conventions:**

Basis: Results for soil samples are generally reported on a 100% dry weight basis.  
The Result Basis is listed following the units as "dry", "wet", or " " (blank) designation.

"dry" Sample results and Reporting Limits are reported on a dry weight basis. (i.e. "ug/kg dry")

See Percent Solids section for details of dry weight analysis.

"wet" Sample results and Reporting Limits for this analysis are normally dry weight corrected, but have not been modified in this case.

" " Results without 'wet' or 'dry' designation are not normally dry weight corrected. These results are considered 'As Received'.

Results for Volatiles analyses on soils and sediments that are reported on a "dry weight" basis include the water miscible solvent (WMS) correction referenced in the EPA 8000 Method guidance documents. Solid and Liquid samples reported on an "As Received" basis do not have the WMS correction applied, as dry weight was not performed.

**QC Source:**

In cases where there is insufficient sample provided for Sample Duplicates and/or Matrix Spikes, a Lab Control Sample Duplicate (LCS Dup) may be analyzed to demonstrate accuracy and precision of the extraction batch.

Non-Client Batch QC Samples (Duplicates and Matrix Spike/Duplicates) may not be included in this report. Please request a Full QC report if this data is required.

**Miscellaneous Notes:**

" --- " QC results are not applicable. For example, % Recoveries for Blanks and Duplicates, % RPD for Blanks, Blank Spikes and Matrix Spikes, etc.

" \*\*\* " Used to indicate a possible discrepancy with the Sample and Sample Duplicate results when the %RPD is not available. In this case, either the Sample or the Sample Duplicate has a reportable result for this analyte, while the other is Non Detect (ND).

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16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: **OMSI**

Project Number: **Crescent Parcel/6909-A**

Project Manager: **Greg Martin**

**Report ID:**

**A4F1068 - 08 06 24 1656**

### REPORTING NOTES AND CONVENTIONS (Cont.):

**Blanks:**

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).

Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.

-For Blank hits falling between  $\frac{1}{2}$  the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.

-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.

For further details, please request a copy of this document.

-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.

'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

**Preparation Notes:**

**Mixed Matrix Samples:**

**Water Samples:**

Water samples containing significant amounts of sediment are decanted or separated prior to extraction, and only the water portion analyzed, unless otherwise directed by the client.

**Soil and Sediment Samples:**

Soil and Sediment samples containing significant amounts of water are decanted prior to extraction, and only the solid portion analyzed, unless otherwise directed by the client.

**Sampling and Preservation Notes:**

Certain regulatory programs, such as National Pollutant Discharge Elimination System (NPDES), require that activities such as sample filtration (for dissolved metals, orthophosphate, hexavalent chromium, etc.) and testing of short hold analytes (pH, Dissolved Oxygen, etc.) be performed in the field (on-site) within a short time window. In addition, sample matrix spikes are required for some analyses, and sufficient volume must be provided, and billable site specific QC requested, if this is required. All regulatory permits should be reviewed to ensure that these requirements are being met.

Data users should be aware of which regulations pertain to the samples they submit for testing. If related sample collection activities are not approved for a particular regulatory program, results should be considered estimates. Apex Laboratories will qualify these analytes according to the most stringent requirements, however results for samples that are for non-regulatory purposes may be acceptable.

Samples that have been filtered and preserved at Apex Laboratories per client request are listed in the preparation section of the report with the date and time of filtration listed.

Apex Laboratories maintains detailed records on sample receipt, including client label verification, cooler temperature, sample preservation, hold time compliance and field filtration. Data is qualified as necessary, and the lack of qualification indicates compliance with required parameters.

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Tigard, OR 97224

Project: **OMSI**

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

**Report ID:**

A4F1068 - 08 06 24 1656

## LABORATORY ACCREDITATION INFORMATION

**ORELAP Certification ID: OR100062 (Primary Accreditation)** -

**EPA ID: OR01039**

All methods and analytes reported from work performed at Apex Laboratories are included on Apex Laboratories' ORELAP Scope of Certification, with the exception of any analyte(s) listed below:

**Apex Laboratories**

| Matrix | Analysis | TNI_ID | Analyte | TNI_ID | Accreditation |
|--------|----------|--------|---------|--------|---------------|
|--------|----------|--------|---------|--------|---------------|

All reported analytes are included in Apex Laboratories' current ORELAP scope.

**Secondary Accreditations**

Apex Laboratories also maintains reciprocal accreditation with non-TNI states (Washington DOE), as well as other state specific accreditations not listed here.

**Subcontract Laboratory Accreditations**

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.

Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

**Field Testing Parameters**

Results for Field Tested data are provided by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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## GRI

16520 SW Upper Boones Ferry Rd, Ste 100

Tigard, OR 97224

Project: OMSI

Project Number: Crescent Parcel/6909-A

Project Manager: Greg Martin

Report ID:

A4F1068 - 08 06 24 1656

## APEX LABS COOLER RECEIPT FORM

Client: GRI Element WO#: A4F1068

Project/Project #: OMSI Crescent Parcel 6909-A

## Delivery Info:

Date/time received: 6/11/24 @ 1105 By: ADW

Delivered by: Apex Client ☒ ESS FedEx UPS Radio Morgan SDS Evergreen OtherFrom USDA Regulated Origin? Yes No ☒

Cooler Inspection Date/time inspected: 6/11/24 @ 1105 By: ADW

Chain of Custody included? Yes ☒ NoSigned/dated by client? Yes ☒ NoContains USDA Reg. Soils? Yes No ☒ Unsure (email RegSoils)

|                            | Cooler #1 | Cooler #2 | Cooler #3 | Cooler #4 | Cooler #5 | Cooler #6 | Cooler #7 |
|----------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Temperature (°C)           | 4.8       |           |           |           |           |           |           |
| Custody seals? (Y/N)       | N         |           |           |           |           |           |           |
| Received on ice? (Y/N)     | Y         |           |           |           |           |           |           |
| Temp. blanks? (Y/N)        | N         |           |           |           |           |           |           |
| Ice type: (Gel/Real/Other) | Real      |           |           |           |           |           |           |
| Condition (In/Out):        | In        |           |           |           |           |           |           |

Cooler out of temp? (Y/N) Possible reason why:

Green dots applied to out of temperature samples? Yes ☒ NoOut of temperature samples form initiated? Yes ☒ No

Sample Inspection: Date/time inspected: 6/11/24 @ 1247 By: ADW

All samples intact? Yes ☒ No Comments:Bottle labels/COCs agree? Yes ☒ No Comments:COC/container discrepancies form initiated? Yes No ☒Containers/volumes received appropriate for analysis? Yes ☒ No Comments: DP-2-9 1/2 Meo H

VOAs have no Meo H.

Do VOA vials have visible headspace? Yes No NA ☒

Comments:

Water samples: pH checked: Yes No NA ☒ pH appropriate? Yes No NA ☒ pH ID:

Comments:

Labeled by: ADW

Witness:

KAM

Cooler Inspected by: ADW

Form Y-003 R-02

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Darwin Thomas, Business Development Director



## **APPENDIX C**

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*Geoprofessional Business Association Guidance Document*

# Important Information about This Geoenvironmental Report

Geoenvironmental studies are commissioned to gain information about environmental conditions on and beneath the surface of a site. The more comprehensive the study, the more reliable the assessment is likely to be. But remember: Any such assessment is to a greater or lesser extent based on professional opinions about conditions that cannot be seen or tested. Accordingly, no matter how many data are developed, risks created by unanticipated conditions will always remain. *Have realistic expectations.* Work with your geoenvironmental consultant to manage known and unknown risks. Part of that process should already have been accomplished, through the risk allocation provisions you and your geoenvironmental professional discussed and included in your contract's general terms and conditions. This document is intended to explain some of the concepts that may be included in your agreement, and to pass along information and suggestions to help you manage your risk.

## **Beware of Change; Keep Your Geoenvironmental Professional Advised**

The design of a geoenvironmental study considers a variety of factors that are subject to change. Changes can undermine the applicability of a report's findings, conclusions, and recommendations. *Advise your geoenvironmental professional about any changes you become aware of.* Geoenvironmental professionals cannot accept responsibility or liability for problems that occur because a report fails to consider conditions that did not exist when the study was designed. Ask your geoenvironmental professional about the types of changes you should be particularly alert to. Some of the most common include:

- modification of the proposed development or ownership group,
- sale or other property transfer,
- replacement of or additions to the financing entity,

- amendment of existing regulations or introduction of new ones, or
- changes in the use or condition of adjacent property.

Should you become aware of any change, *do not rely on a geoenvironmental report.* Advise your geoenvironmental professional immediately; follow the professional's advice.

## **Recognize the Impact of Time**

A geoenvironmental professional's findings, recommendations, and conclusions cannot remain valid indefinitely. The more time that passes, the more likely it is that important latent changes will occur. *Do not rely on a geoenvironmental report if too much time has elapsed since it was completed.* Ask your environmental professional to define "too much time." In the case of Phase I Environmental Site Assessments (ESAs), for example, more than 180 days after submission is generally considered "too much."

## **Prepare To Deal with Unanticipated Conditions**

The findings, recommendations, and conclusions of a Phase I ESA report typically are based on a review of historical information, interviews, a site "walkover," and other forms of noninvasive research. When site subsurface conditions are not sampled in any way, the risk of unanticipated conditions is higher than it would otherwise be.

While borings, installation of monitoring wells, and similar invasive test methods can help reduce the risk of unanticipated conditions, *do not overvalue the effectiveness of testing.* Testing provides information about actual conditions only at the precise locations where samples are taken, and only when they are taken. Your geoenvironmental

professional has applied that specific information to develop a general opinion about environmental conditions. *Actual conditions in areas not sampled may differ (sometimes sharply) from those predicted in a report.* For example, a site may contain an unregistered underground storage tank that shows no surface trace of its existence. *Even conditions in areas that were tested can change,* sometimes suddenly, due to any number of events, not the least of which include occurrences at adjacent sites. Recognize, too, that *even some conditions in tested areas may go undiscovered,* because the tests or analytical methods used were designed to detect only those conditions assumed to exist.

Manage your risks by retaining your geoenvironmental professional to work with you as the project proceeds. Establish a contingency fund or other means to enable your geoenvironmental professional to respond rapidly, in order to limit the impact of unforeseen conditions. And to help prevent any misunderstanding, identify those empowered to authorize changes and the administrative procedures that should be followed.

### **Do Not Permit Any Other Party To Rely on the Report**

Geoenvironmental professionals design their studies and prepare their reports to meet the specific needs of the clients who retain them, in light of the risk management methods that the client and geoenvironmental professional agree to, and the statutory, regulatory, or other requirements that apply. The study designed for a developer may differ sharply from one designed for a lender, insurer, public agency...or even another developer. *Unless the report specifically states otherwise, it was developed for you and only you.* Do not unilaterally permit any other party to rely on it. The report and the study underlying it may not be adequate for another party's needs, and you could be held liable for shortcomings your geoenvironmental professional was powerless to prevent or anticipate. Inform your geoenvironmental professional when you know or expect that someone else—a third-party—will want to use or rely on the report. *Do not permit third-party use or reliance until you first confer with the geoenvironmental professional who prepared the report.* Additional testing, analysis, or study may be required and, in any event, appropriate terms and conditions should be agreed to so both you and your geoenvironmental professional are protected from third-party risks. *Any party who relies on a geoenvironmental report without the express written permission of the professional who prepared it and the client for whom it was prepared may be solely liable for any problems that arise.*

### **Avoid Misinterpretation of the Report**

Design professionals and other parties may want to rely on the report in developing plans and specifications. They need to be advised, in writing, that their needs may not have been considered when the study's scope was developed, and, even if their needs were considered, they might misinterpret geoenvironmental findings, conclusions, and recommendations. *Commission your geoenvironmental professional to explain pertinent elements of the report to others who are permitted to rely on it, and to review any plans, specifications or other instruments of professional service that incorporate any of the report's findings, conclusions, or recommendations.* Your geoenvironmental professional has the best understanding of the issues involved, including the fundamental assumptions that underpinned the study's scope.

### **Give Contractors Access to the Report**

Reduce the risk of delays, claims, and disputes by giving contractors access to the full report, *providing that it is accompanied by a letter of transmittal that can protect you* by making it unquestionably clear that: 1) the study was not conducted and the report was not prepared for purposes of bid development, and 2) the findings, conclusions, and recommendations included in the report are based on a variety of opinions, inferences, and assumptions and are subject to interpretation. Use the letter to also advise contractors to consult with your geoenvironmental professional to obtain clarifications, interpretations, and guidance (a fee may be required for this service), and that—in any event—they should conduct additional studies to obtain the specific type and extent of information each prefers for preparing a bid or cost estimate. Providing access to the full report, with the appropriate caveats, helps prevent formation of adversarial attitudes and claims of concealed or differing conditions. If a contractor elects to ignore the warnings and advice in the letter of transmittal, it would do so at its own risk. Your geoenvironmental professional should be able to help you prepare an effective letter.

### **Do Not Separate Documentation from the Report**

Geoenvironmental reports often include supplemental documentation, such as maps and copies of regulatory files, permits, registrations, citations, and correspondence with regulatory agencies. If subsurface explorations were performed, the report may contain final boring logs and copies of laboratory data. If remediation activities occurred on site, the report may include: copies of daily field reports; waste manifests; and information about the disturbance of subsurface materials, the type and thickness of any fill placed on site, and fill placement practices, among other types of documentation. *Do not separate supplemental documentation from the report. Do not, and do not permit any other party to redraw or modify any of the supplemental documentation for incorporation into other professionals' instruments of service.*

### **Understand the Role of Standards**

Unless they are incorporated into statutes or regulations, standard practices and standard guides developed by the American Society for Testing and Materials (ASTM) and other recognized standards-developing organizations (SDOs) are little more than aspirational methods agreed to by a consensus of a committee. The committees that develop standards may not comprise those best-qualified to establish methods and, no matter what, no standard method can possibly consider the infinite client- and project-specific variables that fly in the face of the theoretical "standard conditions" to which standard practices and standard guides apply. In fact, these variables can be so pronounced that geoenvironmental professionals who comply with every directive of an ASTM or other standard procedure could run afoul of local custom and practice, thus violating the standard of care. Accordingly, when geoenvironmental professionals indicate in their reports that they have performed a service "in general compliance" with one standard or another, it means they have applied professional judgement in creating and implementing a scope of service designed for the specific client and project involved, and which follows some of the general precepts laid out in the referenced standard. To the extent that a report indicates "general compliance" with a standard, you may wish to speak with your geoenvironmental professional to learn more about what was and was not done. *Do not assume a given standard was followed to the letter.* Research indicates that that seldom is the case.

### **Realize That Recommendations May Not Be Final**

The technical recommendations included in a geoenvironmental report are based on assumptions about actual conditions, and so are preliminary or tentative. Final recommendations can be prepared only by observing actual conditions as they are exposed. For that reason, you should retain the geoenvironmental professional of record to observe construction and/or remediation activities on site, to permit rapid response to unanticipated conditions. *The geoenvironmental professional who prepared the report cannot assume responsibility or liability for the report's recommendations if that professional is not retained to observe relevant site operations.*

### **Understand That Geotechnical Issues Have Not Been Addressed**

Unless geotechnical engineering was specifically included in the scope of professional service, a report is not likely to relate any findings, conclusions, or recommendations about the suitability of subsurface materials for construction purposes, especially when site remediation has been accomplished through the removal, replacement, encapsulation, or chemical treatment of on-site soils. The equipment, techniques, and testing used by geotechnical engineers differ markedly from those used by geoenvironmental professionals; their education, training, and experience are also significantly different. If you plan to build on the subject site, but have not yet had a geotechnical engineering study conducted, your geoenvironmental professional should be able to provide guidance about the next steps you should take. The same firm may provide the services you need.

### Read Responsibility Provisions Closely

Geoenvironmental studies cannot be exact; they are based on professional judgement and opinion. Nonetheless, some clients, contractors, and others assume geoenvironmental reports are or certainly should be unerringly precise. Such assumptions have created unrealistic expectations that have led to wholly unwarranted claims and disputes. To help prevent such problems, geoenvironmental professionals have developed a number of report provisions and contract terms that explain who is responsible for what, and how risks are to be allocated. Some people mistake these for “exculpatory clauses,” that is, provisions whose purpose is to transfer one party’s rightful responsibilities and liabilities to someone else. Read the responsibility provisions included in a report and in the contract you and your geoenvironmental professional agreed to. *Responsibility provisions are not “boilerplate.”* They are important.

### Rely on Your Geoenvironmental Professional for Additional Assistance

Membership in the Geoprofessional Business Association exposes geoenvironmental professionals to a wide array of risk management techniques that can be of genuine benefit for everyone involved with a geoenvironmental project. Confer with your GBA-member geoenvironmental professional for more information.



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