



INDEPENDENT CLEANUP PATHWAY FINAL REPORT

For Brauer 1820 Vacant Lot Property

Tax Lot Nos. 3000 & 3800 (Tax Map 3S3E06B) S Redland Road & S Fishers Mill Road Clackamas County, Oregon ECSI No. 6737

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ACRONYMS AND ABBREVIATIONS

Acronym Definition

ASTM American Society for Testing and Materials

BGS Below Ground Surface

BTEX Benzene, Toluene, Ethylbenzene, and Xylenes cPAH Carcinogenic Polycyclic Aromatic Hydrocarbon

CFSL Clean Fill Screening Level

COPC Contaminant of Potential Concern

COC Contaminant of Concern CSM Conceptual Site Model

DEQ Oregon Department of Environmental Quality

DRO Diesel-Range Organics

ECSI Environmental Cleanup Site Information (DEQ tracking number)

EPA U.S. Environmental Protection Agency

FOC Fraction of Organic Carbon
GRO Gasoline-Range Organics
IDW Investigation-Derived Waste
ICP Independent Cleanup Pathway
MFA Maul Foster & Alongi, Inc.

MS/MSD Matrix Spike / Matrix Spike Duplicate
MTCA Model Toxics Control Act (WA State)

NFA No Further Action

OAR Oregon Administrative Rule

OWRD Oregon Water Resources Department PAH Polycyclic Aromatic Hydrocarbon

PCB Polychlorinated Biphenyl PID Photoionization Detector

QA/QC Quality Assurance / Quality Control

RBC Risk-Based Concentration
RBDM Risk-Based Decision Matrix

ROW Right-of-Way

SAP Sampling and Analysis Plan

SEC Succeed Environmental Consulting LLC

TCE Trichloroethylene

TEE Terrestrial Ecological Evaluation
TP-1 Test Pit 1 (site-specific location)
TPH Total Petroleum Hydrocarbons
UIC Underground Injection Control
USGS United States Geological Survey
VOC Volatile Organic Compound



1. INTRODUCTION

Succeed Environmental Consulting LLC (SEC) is pleased to submit this Independent Cleanup Pathway (ICP) final report on behalf of Brauer 1820 LLC for two vacant lots that comprise Cleanup Site No. 6737 (Subject Property). In the summer of 2021, an area of impacted soil was discovered proximate to a drainpipe that was discharging wastewater onto the Subject Property. The contamination appears to have originated from the up-gradient Redland Store property, which (1) historically operated as a Chevron-brand gas station with gasoline USTs and (2) historically utilized an unregistered UIC for sewage disposal. Based on the investigation discussed in this report, the Redland Store's sewer system discharged sewage to their former UIC, which was connected to a drainpipe that historically discharged wastewater, including petroleum constituents, onto the Subject Property.

The purpose of this report is to describe the discovery and subsequent cleanup of hazardous materials (primarily gasoline-range hydrocarbons) along the western portion of the Subject Property. (centered near the drainpipe). SEC conducted investigation activities at the Subject Property in conjunction with Maul Foster and Alongi (MFA), who also collected several of the samples at the Subject Property and surrounding rights-of-way (ROW). MFA provided SEC with their chemical analytical laboratory reports for the purpose of report preparation.

The objective of this report is to provide sufficient data, such that the Oregon Department of Environmental Quality (DEQ) can provide an opinion regarding the need for further action at the Subject Property. In our professional opinion, sufficient data has been obtained to issue a determination of No Further Action for the Subject Property.

2. SITE BACKGROUND

The 1.40-acre Subject Property includes Tax Lots 3000 and 3800 of Clackamas County Tax Map 3S3E06B and is located in the NW ¼ of Section 6, Township 3 South, Range 3 East of the Willamette Meridian. The Subject Property is bound to the southwest by S Redland Road, across which is the Redland Station; to the southeast by Redland Family Dentistry; to the Northeast by a gravel driveway, across which is a Clear Creek Communications (telecom business); and to the Northwest by S Fischers Mill Road, across which is the Redland Store (and associated feed & grain building), which is discussed further herein.

The Subject Property currently consists of vacant land that was purchased by Brauer 1820 LLC in 2012. SEC did not ascertain previous ownership history during this assessment. Based on our review of publicly available aerial photographs, the portion of the Subject Property that was impacted by the Redland Store has historically existed as vacant land.

According to the Clackamas County Zoning and Development Ordinance, the Subject Property is zoned as Rural Commercial (RC) land. It is our understanding that the future land use of the property will likely remain as commercial. SEC has no knowledge of environmental-related permits or violations associated with current or past uses of the Subject Property. Prior to enrollment in the ICP, there has been no environmental regulatory history associated with the Subject Property.



The Subject Property is shown relative to surrounding physical features on Figure 1. A site plan of the Subject Property is provided on Figure 2.

3. ENVIRONMENTAL SETTING

Climate Information

The climate at the Subject Property is characterized by hot, dry summers and cool, wet winters. The annual average temperature is 55.4°F, with the hottest months (July and August) averaging 70.8°F and the coldest month (December) averaging 41.8°F. The annual precipitation is 44.81 inches (1,138 mm), mostly concentrated during the winter months (November to March)¹.

Topography

The Subject Property is situated at elevations ranging between 340 and 350 feet NAVD 1988² and slopes slightly downwards towards the east-northeast.

Surface Water Hydrology

Surface water that accumulates at the Subject Property is generally expected to infiltrate the ground surface.

Geology and Soil Conditions

The Subject Property is located near the southeastern side of the Portland Basin, a fault-bounded basin situated between the Coast Ranges to the west and the Cascade Mountains to the east (Orr and Orr, 1999)³. Bedrock in this region consists of basalt flows emplaced approximately 15 million years ago as part of the Columbia River Basalt Group. Near-surface soil beneath the Subject Property is comprised of Miocene/Pleistocene terrestrial sedimentary rocks of the Willamette Group (Troutdale Formation)⁴ consisting primarily of fluvial mudstone, sandstone, and conglomerate. The soil observed at the subject property primarily consisted of conglomerated gravel, sand, and clay to depths of up to 15 feet below ground surface (BGS).

Hydrogeology

Groundwater beneath the Subject Property is generally expected to flow downwards towards the northeast, consistent with site topography. Seasonal shallow groundwater at the Subject Property has been encountered at depths as shallow as 7 and 12 feet BGS in the winter/spring months and has been dry to depths below 15 feet BGS during the summer fall/summer months. Based on our review of an adjacent well log (Well ID. 78898), productive deeper groundwater in the Subject Property vicinity occurs in a zone of sand and gravel situated at depths ranging between 178 and 190 feet BGS. There are no known plans to develop additional groundwater supply wells for drinking water supply within the Subject Property vicinity.

4. ON-SITE INVESTIGATION & CLEANUP ACTION

The following sections describe environmental investigation and cleanup actions that occurred at

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¹ Taylor, George H.; Hannan, Chris (1999). The Climate of Oregon: From Rain Forest to Desert. Corvallis: Oregon State University Press. ISBN 978-0-87071-468-9.

² Redland Quadrangle; Oregon – Clackamas County; 7.5-Minute Series, USGS, 2023

³ Orr, E.L. and Orr, W.N., 1999, Geology of Oregon. Kendall/Hunt Publishing, Iowa: 254 p.

⁴ Madin, I.P., 2004, Preliminary digital geologic compilation map of the Greater Portland Urban Area, Oregon: Portland, Oreg., Oregon Dept. of Geology and Mineral Industries Open-File Report O-04-02, scale 1:24,000



the Subject Property between 2023 and 2025. The chemical analytical results associated with these activities are summarized in Tables 1 and 2, the exploration logs are provided in Appendix A, and the corresponding laboratory reports are provided in Appendix B. A summary of MFA and SECs sampling approach and results are provided below and relevant referenced sampling locations are shown on Figure 2:

• On-Site Soil Investigation: Between September 5 and 8, 2023, MFA advanced one test pit (TP-1) and two soil borings (B8 and B9) to explore subsurface conditions proximate to the western edge and above-noted drainpipe at the Subject Property. Elevated concentrations of petroleum hydrocarbons (primarily in the gasoline range) were detected in soil collected from depths ranging between 8.0 and 9.0 feet BGS.

The impacted soil identified during this investigation was situated directly below the drainpipe trench, with the highest concentrations of gasoline located proximate to the trench. This trend was demonstrated by the elevated hydrocarbon concentrations encountered in soil sample VL-TP1-S-001 (collected near the drainpipe), and the generally clean conditions encountered in soil samples VL-TP1-S-002, VL-B8-S-11.5 (shown on Figure 2 as B-8), and VL-B9-S-7 (shown as B-9), which were collected 10′, 35′, and 100′ away from the drainpipe, respectively.

In addition, a water sample (CB-1) was collected from the on-site catch basin in September 2023. No petroleum hydrocarbons were detected in the water sample. High concentrations of E. coli bacteria were detected in this sample, which is discussed in the following sections.

• **Up-Gradient Investigation:** Between September 8 and November 10, 2023, MFA advanced two test pits (RS-TP1 & RS-TP2) and 13 borings (RS-B1 through RS-B6 & RS-B10 through RS-B16) to explore subsurface conditions in the up-gradient public right-of-way (ROW) and the Redland Store property. Elevated concentrations of petroleum hydrocarbons (primarily in the gasoline range) were detected in soil collected from borings B15 and B16 at depths ranging between 7.0 and 8.0 feet BGS. In addition, E. Coli was detected in shallow groundwater samples collected from both of the test pits.

In addition to the collection of soil and groundwater data, the following analyses of the upgradient Redland Store was conducted:

- 1. On September 18 and 21, 2025, two utility locates (camera scopes) were conducted to identify the up-gradient source of the drainpipe. The drainpipe was traced beneath Fishers Mill Road to below the southeast corner of the feed & grain building, where the former UIC was located.
- 2. On November 8, 2023, green dye was placed in the toilet of the up-gradient Redland Store. Promptly thereafter, green-dyed water from the Store's toilet discharged directly into the former UIC at the Redland Store. Green dyed water also immediately flowed into the on-site catch basin via the drainpipe.

It is our understanding that the unregistered UIC at the Redland Store is no longer in use. However, the analyses conducted in 2023 (the camera scope, dye test, E. Coli analytical, and undeveloped history of the Subject Property) indicate that the drainpipe is the most likely pathway for sewage and other waste that originated at the Redland Store property to migrate to the Subject Property.



Out of an abundance of caution, three nearby drinking water wells (RG-GW-001, DB-GW-001, and RD-GW-001 shown on Figure 1) were additionally tested for E. coli in April 2024, with no detections of E. coli identified.

• On-Site Remedial Action: A remedial action consisting of the removal of petroleum-impacted soil was conducted at the Subject Property. Between September 5 and 20, 2023, an approximately 1,500-square-foot (SF) area of soil was excavated to depths of up to 15 feet BGS in the area shown on Figure 3. Groundwater was not encountered during excavation activities. Field evidence of impact in soil diminished with increased distance from the drainpipe.

The excavation continued vertically and horizontally until the visually impacted soil was removed. One minor pocket of inaccessible impacted soil extended beneath the roots of a large tree at the north end of the excavation and was left in-place, as removal would likely have killed the tree.

A total of 93.84 tons of soil that exhibited field evidence of impact (petroleum-like sheen, staining, and/or petroleum odor) was disposed of as non-hazardous waste at the Waste Management Hillsboro Landfill under permit no. 141172OR. The corresponding landfill disposal receipts are provided in Appendix C.

Following excavation activities, a total of 13 confirmation soil samples were collected near the limits of the remedial excavation at varying depths. Four of the 13 confirmation soil samples⁵ were collected from the base of the excavation, and nine of the 13 confirmation soil samples⁶ were collected from the lateral limits of the excavation.

All of the confirmation soil samples were submitted to Apex Laboratories following standard chain-of-custody protocol and analyzed for gasoline-, diesel-, and oil-range hydrocarbons and constituent VOCs (benzene, ethylbenzene, toluene, xylenes, and naphthalene). The chemical analytical results were compared to applicable DEQ Risk-Based Concentrations (RBCs discussed in Section 10), and none of the 13 confirmation soil samples contained petroleum hydrocarbons or constituent VOCs at concentrations greater than DEQ RBCs for occupational, construction worker, or excavation workers,

With the exception of the above-referenced inaccessible area of soil, which contained gasoline and naphthalene at concentrations exceeding DEQ's soil leaching to groundwater RBC for occupational receptors, the confirmation soil samples collected following the removal of petroleum-impacted soil did not contain contaminants of interest at concentrations greater than applicable DEQ RBCs.

Following remedial activities, SEC collected one water sample from a temporary well screen at sample location TP-1, where soil exhibited the highest concentrations of gasoline-range hydrocarbons and naphthalene before remedial activities. Water sample TP-1 was analyzed for gasoline-, diesel-, and oil-range hydrocarbons and associated VOCs (BTEX+N), and did not contain contaminants of interest at concentrations greater than any applicable DEQ RBCs.

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 $^{^{\}mbox{\tiny 5}}$ VL-EB-S-001, VL-EB-S-002, VL-EB-S-003, and VL-EB-S-004

⁶ VL-SWW-S1-8.0, VL-SWW-S2-10.0, VL-SWW-S3-8.5, VL-SWW-S4-10.0, TP-2 (8.0-10.0), TP-3 (8.0-10.0), TP-4 (8.0-10.0), and TP-5 (8.0-10.0)



Clean overburden soil that was excavated during the remedial action, which did not exhibit field evidence of impact, was stockpiled separately on-site during excavation activities. Two soil stockpile characterization samples (VL-SP-CS-002 and VL-SP-CS-003) were collected and submitted to a chemical analytical laboratory for analysis of petroleum hydrocarbons and associated VOCs. A comparison of the resulting laboratory data to DEQ clean fill screening levels (CFSLs updated February 2019) confirmed that the excavated overburden soil met CFSLs. Accordingly, the clean overburden was used as backfill material following remedial excavation activities.

The approximate excavation limits and typical cross sections corresponding confirmation soil samples are presented on Figure 3. Photographs of investigation and cleanup activities that were conducted at the Subject Property are presented on Figures 4 through 8.

• On-Site Drainpipe Reconfiguration: July 2021. In July 2021, the drainpipe that originates at the up-gradient Redland Store property was re-routed to the catch basin located along the perimeter of the subject property (shown on Figure 2) using watertight dual-wall gasketed drainpipe, intended to restrict future leaks from exiting the drainpipe at the Subject Property. Following drainpipe reconfiguration, a sediment sample (VL-PIPE-SL1) was collected from a segment of the former drainpipe. Although no gasoline or associated VOCs were detected in the sediment sample, low levels of diesel-range hydrocarbons were detected.

5. SOURCE NATURE AND EXTENT OF CONTAMINATION

5.1 Source of Contamination

The impacted soil identified during this investigation appeared to be situated proximate to the drainpipe that historically discharged wastewater from the adjoining Redland Store property onto the Subject Property. Specifically, the highest concentrations of petroleum hydrocarbons were located proximate to the above-noted trench and drainpipe, which was traced back to the Redland Store's feed and grain building and, based on the results of green dye testing (Section 4), was also connected to the Redland Store's former unregistered UIC. It is our understanding that the former unregistered UIC has since been taken out of service.

5.2 Nature of Contamination

Based on the results of investigations conducted at the Subject Property, contaminants of potential concern (COPCs) included petroleum hydrocarbons and associated VOCs. E. Coli was historically identified in samples collected from an on-site catch basin, and in shallow groundwater collected from a test pit that was advanced in the up-gradient ROW (proximate to the Redland Store).

5.3 Extent of Contamination

Soil: Gasoline-range hydrocarbons and naphthalene were identified in soil at concentrations that exceed their corresponding DEQ Soil Leaching to Groundwater RBCs. Diesel-range hydrocarbons, oil-range hydrocarbons, ethylbenzene, and xylenes were also identified in soil at concentrations that do not exceed any corresponding RBCs.

Groundwater: Four water samples collected during this investigation were analyzed for the above-referenced COPCs. Although low concentrations of diesel-range hydrocarbons were identified in groundwater collected at the Subject Property, no COPCs were identified at concentrations exceeding any applicable RBCs.



With respect to the E. Coli was historically identified in samples collected from the on-site catch basin, and in shallow groundwater collected from a test pit that was advanced in the up-gradient ROW (proximate to the Redland Store), it is our understanding that the former unregistered UIC has since been taken out of service.

6. EXPOSURE PATHWAY SUMMARY

This section evaluates completed, potential, and eliminated exposure pathways associated with COPCs at the Subject Property, including petroleum hydrocarbons and associated volatile organic compounds (BTEX+N).

6.1 Groundwater Pathways for Exposure

Groundwater at the Subject Property is not currently used for drinking or other beneficial uses. In the event of future development, public water supply is available in the vicinity of the Subject Property.

Investigative activities confirmed the absence of petroleum-related contaminants above applicable RBCs in groundwater samples. This pathway is considered *incomplete*. There is no evidence of impacted groundwater posing a current or future risk to human health or the environment.

6.2 Direct Contact Pathways for Exposure

Impacted soil containing gasoline-range hydrocarbons and naphthalene was identified and subsequently excavated. Confirmation soil sampling confirmed that residual concentrations were below applicable DEQ RBCs for occupational, construction worker, and excavation worker scenarios, except for a minor pocket of inaccessible impacted soil located beneath a tree. This pathway is considered *eliminated* for current and future land use, based on site remediation, confirmation sampling, and limited receptor exposure.

6.3 Surface Water Pathways for Exposure

Surface water was not a significant migration or exposure mechanism at the Subject Property. No impacted surface water bodies exist on or adjacent to the site. In addition, surface water that accumulates at the Subject Property is generally expected to infiltrate the ground surface. This pathway is considered *incomplete*. Surface water is not a current or likely future receptor.

6.4 Air Pathways for Exposure

Impacted soil containing gasoline-range hydrocarbons and naphthalene was identified and subsequently excavated, except for a minor pocket of inaccessible impacted soil beneath a tree. Results of soil and groundwater chemical analysis conducted at the subject property showed no exceedances of the DEQ's RBCs for vapor intrusion or inhalation exposure. This pathway is considered *eliminated* based on empirical data and removal of impacted soil.

7. CONTAMINANT FATE AND TRANSPORT

This section evaluates the behaviour and mobility of COPCs identified during the site investigation, including petroleum hydrocarbons (gasoline-, diesel-, and oil-range) associated VOCs (BTEX+N). The evaluation considers site-specific geology, hydrogeology, and the results of



sampling and remedial actions.

7.1 Contaminant Transport

Contaminant migration at the Subject Property was primarily vertical, associated with infiltration of petroleum-impacted wastewater discharged via a historic drainpipe connected to the up-gradient Redland Store property. Impacted soil was limited to a localized area directly below where the drainpipe entered the Subject Property. No lateral transport was observed beyond 10 feet from the source area. Groundwater, encountered intermittently at depths >7 feet BGS during wetter seasons, did not exhibit evidence of significant contaminant transport.

7.2 Contaminant Degradation/Persistence

Gasoline-range hydrocarbons and VOCs, particularly naphthalene and BTEX compounds, are known to degrade under aerobic conditions common in the unsaturated zone at the Subject Property. Diesel- and oil-range hydrocarbons exhibit slower degradation rates but were present at concentrations below relevant RBCs. E. coli, while detected in historical catch basin and shallow ROW groundwater samples, is not persistent in subsurface conditions and was not detected in drinking water wells. No free-phase hydrocarbons or long-term persistent compounds were identified in site media.

7.3 Demonstration of No Impact to Groundwater

Four groundwater samples were collected and analysed for COPCs. No petroleum hydrocarbons or VOCs were detected above applicable DEQ RBCs. The primary impacted zone was shallow and unsaturated at the time of excavation. In addition, the minor pocket of inaccessible impacted soil is not expected to leach contaminants to groundwater due to its limited volume, root interference, and vertical separation from the saturated zone.

7.4 Preliminary Hot Spot Determination

A minor pocket of inaccessible impacted soil containing gasoline-range hydrocarbons and naphthalene at concentrations exceeding DEQ's soil leaching to groundwater RBCs remains beneath a large tree. Based on the limited extent, absence of detectable impacts in underlying groundwater, and lack of complete exposure pathways, this residual impact does not qualify as a "hot spot" per OAR 340-122-0085. All remaining accessible impacted soil was removed and confirmed clean via laboratory analysis.

7.5 Conceptual Site Model

The conceptual site model (CSM) identifies the historical unregistered UIC at the Redland Store and associated drainpipe as the source of petroleum impact to the Subject Property. Based on SEC's review of the data, contaminant migration occurred vertically through preferential flow paths in the drainpipe and associated trench backfill. Exposure pathways have been assessed and found to be incomplete or eliminated through source removal, pathway interruption (drainpipe rerouting), and confirmation sampling. No receptors are currently or potentially at risk.

7.6 Locality of the Facility

The Subject Property is located in a semi-rural commercial setting near the intersection of S Redland Road and S Fischers Mill Road in Clackamas County, Oregon. The property is surrounded by mixed-use commercial properties, including a dental clinic, telecom facility, and general store. The land use is expected to remain commercial. No surface water bodies or sensitive ecological receptors are located on-site or in immediate proximity.

8. LAND USE DETERMINATIONS



This section outlines the current and anticipated future land use of the Subject Property and identifies existing and potential beneficial uses of surface water and groundwater in the site vicinity.

8.1 Current and Future Land Use

The Subject Property consists of two vacant commercial tax lots (Tax Lots 3000 and 3800) located at the southeast corner of S Redland Road and S Fischers Mill Road in Clackamas County, Oregon. The parcels are zoned Rural Commercial (RC) under the Clackamas County Zoning and Development Ordinance.

There are no existing buildings or active operations on the Subject Property. Based on current zoning and communications with the property owner, the intended future use of the site will remain commercial. No changes to zoning, land use, or development restrictions are currently proposed or anticipated.

Remedial actions were completed to a standard protective of commercial land use. Cleanup levels were based on RBCs applicable to occupational, construction, and excavation worker scenarios. Therefore, residual contaminant concentrations, where present, are consistent with anticipated future use and pose no unacceptable risk under existing and reasonably likely foreseeable zoning and use scenarios.

8.2 Beneficial Uses of Water

Surface water that accumulates on-site is expected to infiltrate to shallow subsurface soil. Consequently, no current or potential surface water uses are relevant to the Subject Property.

Groundwater in the area occurs in both shallow perched zones (seasonally present) and deeper confined aquifers. While a shallow zone of seasonal groundwater was encountered during site investigation, no groundwater supply wells are present on the Subject Property. Three nearby domestic-use wells (RG-GW-001, DB-GW-001, and RD-GW-001) were tested for E. coli as a precaution in April 2024, and all were non-detect.

Per the Oregon Water Resources Department (OWRD) well logs, the nearest drinking water aquifer lies at approximately 180 to 190 feet BGS and is hydraulically separated from the shallow impacted zone. No impacts to beneficial uses of groundwater were identified.

9. RISK ASSESSMENT

This section presents a qualitative baseline risk assessment evaluating potential risks to human health and ecological receptors from residual contamination at the Subject Property following completion of investigation and remedial actions.

9.1 Baseline Human Health Risk Assessment

The human health risk assessment is based on site-specific data and DEQ's Risk-Based Decision Making (RBDM) guidance. Exposure scenarios were evaluated for the following relevant receptors under current and anticipated future commercial land use.

Occupational workers



- Construction/excavation workers
- Other (e.g., utility personnel or transient public)

Key Findings:

- Petroleum hydrocarbons (gasoline-, diesel-, and oil-range) and associated VOCs were either removed or present at concentrations below applicable DEQ soil RBCs for occupational, construction, and excavation worker scenarios.
- One minor pocket of inaccessible impacted soil remains beneath a tree and contains gasoline
 and naphthalene above DEQ's soil leaching to groundwater RBCs. However, this area is
 inaccessible, does not represent a complete exposure pathway, and is vertically separated
 from groundwater.
- Groundwater sampling did not identify any contaminants at concentrations exceeding DEQ's groundwater RBCs.
- Although soil vapor sampling was not conducted, no COPCs were detected in groundwater at concentrations exceeding DEQ's groundwater RBCs protective of vapor intrusion. Therefore, the vapor intrusion pathway is considered incomplete by inference.

No unacceptable risks to human health were identified under current or foreseeable site use scenarios. All relevant exposure pathways have been addressed through removal, interruption, or are otherwise incomplete.

9.2 Baseline Ecological Risk Assessment

An ecological risk assessment was not conducted, as the site lacks features supportive of ecological receptors. Key considerations include:

- The Subject Property is a cleared, graded, and vacant commercial lot without surface water or ecologically significant vegetation.
- There are no wetlands, surface water bodies, or sensitive habitats at the site.
- Impacted soil was removed to the extent practicable, and remaining impacts are confined to subsurface areas not accessible to ecological receptors.

The potential for ecological exposure is negligible, and no further ecological evaluation is warranted under the Independent Cleanup Pathway.

10. CLEANUP STANDARDS AND HOT SPOTS

This section identifies the applicable cleanup standards used to evaluate residual contamination at the Subject Property and presents a determination regarding the absence of any remaining hot spots, pursuant to Oregon Administrative Rules (OAR 340-122-0085 and 340-122-0115). We also understand that potable water is currently available in the Subject Propety vicinity.

10.1 Selection of Cleanup Standards

Cleanup levels were selected in accordance with DEQ RBCs for unrestricted and occupational land use scenarios. Given the site's zoning and intended future use as a commercial property, the following receptor scenarios were used:

Occupational Worker Exposure



- Construction and Excavation Worker Exposure
- Soil Leaching to Groundwater
- Volatilization to Outdoor Air
- Vapor Intrusion into Buildings

Soil cleanup standards were based on the most conservative applicable RBC for each COPC and exposure scenario. Groundwater RBCs were used for comparison with sample results, although no beneficial groundwater use is present on-site and municipal water is available.

10.2 Final Hot Spot Determination

As defined by OAR 340-122-0115, a "hot spot" is a discrete area where a hazardous substance is present at concentrations significantly exceeding risk-based levels and poses a higher long-term risk. Our analysis is supported by the following:

- All impacted soil accessible for excavation was removed and confirmation sampled. Analytical results demonstrated compliance with applicable DEQ RBCs.
- One minor pocket of inaccessible impacted soil remains in place beneath the roots of a large tree. This area contains gasoline-range hydrocarbons and naphthalene at concentrations exceeding DEQ's soil leaching to groundwater RBCs but does not exceed direct exposure RBCs for human receptors.
- Groundwater samples collected beneath and adjacent to the residual area did not contain COPCs above RBCs, supporting a conclusion of no impact to groundwater.
- The minor pocket of inaccessible impacted soil is not reasonably accessible, is stable, and is not located near sensitive receptors or media.

Based on the nature, extent, and context of the remaining contamination, the minor pocket of inaccessible impacted soil beneath the tree does not meet the regulatory definition of a hot spot. It does not pose a higher risk due to (1) lack of complete exposure pathways, (2) the limited volume and low mobility of the minor pocket of inaccessible impacted soil, and (3) the absence of ecological or human receptors. No other areas of contamination remain at concentrations that would qualify as hot spots.

11. FEASIBILITY STUDY

This section outlines the evaluation of remedial action alternatives for the Subject Property in accordance with Oregon Administrative Rules (OAR 340-122-0080), and identifies the selected remedy based on effectiveness, implementability, and cost.

11.1 Development of Remedial Action Alternatives

Based on site-specific conditions, contaminant nature and extent, and future land use, the following remedial alternatives were available to address petroleum hydrocarbon-impacted soil in a localized area of the Subject Property:

- **Alternative 1: No Action:** No additional investigation or remediation. This alternative does not meet the remedial action objectives and was rejected.
- Alternative 2: Institutional Controls Only: Use of deed restrictions or other institutional controls to limit exposure. This alternative would not adequately address the presence of mobile petroleum hydrocarbons and was deemed insufficient as a standalone remedy.



- Alternative 3: Targeted Excavation and Off-Site Disposal (Selected Alternative): Source removal through excavation of accessible impacted soil, off-site disposal at a permitted landfill, and confirmation sampling to document effectiveness.
- Alternative 4: In-Situ Remediation: In-situ chemical oxidation or bioremediation. Given the small volume and shallow depth of the impacted soil, this alternative was unnecessary and cost-inefficient.

11.2 Evaluation of Remedial Action Alternatives

The following table summarizes an evaluation of the following criteria from OAR 340-122-0090.

Evaluation Criteria	Alternative 1: No Action	Alternative 2: Institutional Controls	Alternative 3: Excavation (Selected)	Alternative 4: In-Situ
Protectiveness	×	×	✓	√ (but excessive)
Implementability	✓	√	√	Moderate
Short-Term Effectiveness	×	×	√	✓
Long-Term Effectiveness	×	×	✓	✓
Cost	Low	Low	Moderate	High

11.3 Recommended Remedial Action

Targeted Excavation and Off-Site Disposal (Alternative 3) was implemented and is considered the most effective and appropriate response action for the following reasons:

- Effectively removed impacted soil above RBCs.
- Reduced contaminant mass and mobility.
- Eliminated primary exposure pathways.
- Required no ongoing operation, maintenance, or monitoring.

A minor pocket of inaccessible impacted soil remains beneath a tree root mass but does not constitute a hot spot, nor does it present a completed exposure pathway or unacceptable risk.

12. REMEDIAL ACTION REPORT

This section documents the implementation of the selected remedial action, confirmation sampling, and evaluation of residual risks. It also confirms that no engineering or institutional controls are required to protect human health or the environment under current or anticipated future land use.

12.1 Work Completed

The selected remedial action (targeted excavation and off-site disposal) was performed at the Subject Property between September 5 and 20, 2023, and consisted of the following key activities:

Excavation of Impacted Soil: An area covering approximately 1,500 square feet, containing



impacted soil proximate to the former drainpipe discharge zone, was excavated to depths of up to 15 feet BGS.

- **Soil Disposal:** A total of 93.84 tons of petroleum-impacted soil exhibiting field evidence (odor, sheen, staining) was transported and disposed of as non-hazardous waste at the Waste Management Hillsboro Landfill under Permit No. 141172OR. Landfill receipts are provided in Appendix C.
- **Drainpipe Rerouting:** In July 2021, the historical drainpipe was reconfigured using watertight, gasketed dual-wall piping to discharge into the on-site catch basin. This work eliminated the previous uncontrolled discharge pathway from the Redland Store property.
- **Use of On-Site Backfill:** Overburden soil with no field evidence of impact was stockpiled, sampled, confirmed to meet DEQ CFSLs, and was reused on-site as backfill material.

12.2 Verification Sampling

Following excavation, 13 confirmation soil samples were collected from near the base and sidewalls of the remedial excavation. All samples were analyzed for gasoline-, diesel-, and oil-range hydrocarbons by NWTPH-Gx and -Dx methods and for selected volatile organic compounds (BTEX + naphthalene) by EPA Method 8260D. In addition, one post-excavation groundwater sample was collected from location TP-1 (beneath the former source area) and analyzed for the same COPCs. All confirmation samples were below applicable DEQ RBCs for occupational, construction, and excavation worker exposure scenarios. One minor pocket of inaccessible impacted soil beneath a tree root mass contained gasoline and naphthalene above DEQ's soil leaching to groundwater RBCs. This soil was left in place to preserve the tree, is not accessible for excavation, and does not appear to present a completed exposure pathway or unacceptable risk.

12.3 Engineering Controls

No engineered barriers, capping, or physical controls were necessary to contain or isolate contaminants, as source material was generally removed, and no unacceptable residual risks remain.

12.4 Institutional Controls

No residual contamination exceeding unrestricted land use standards remains in accessible areas. No deed restrictions or land use limitations are necessary to prevent exposure to COPCs.

13. RESIDUAL RISK

This section provides an assessment of any residual risks remaining at the Subject Property following completion of remedial actions. It demonstrates that, under current and anticipated future land use, the Subject Property poses no unacceptable risk to human health or the environment.

13.1 Residual Risk Assessment

Remedial activities successfully removed all accessible petroleum-impacted soil. Post-excavation confirmation sampling confirmed that:

• No gasoline-, diesel-, or oil-range hydrocarbons remain at concentrations exceeding applicable DEQ RBCs for occupational, construction, or excavation worker scenarios.



- No VOCs (including BTEX or naphthalene) were detected at concentrations above relevant RBCs in confirmation soil or groundwater samples.
- No COPCs exceeded vapor intrusion thresholds in groundwater, and no soil vapor sampling was required given the absence of a complete vapor intrusion pathway.

The only remaining impacted material consists of a minor pocket of inaccessible impacted soil beneath the root system of a mature tree. This soil contains gasoline-range hydrocarbons and naphthalene above the soil leaching to groundwater RBCs. However:

- The minor pocket of inaccessible impacted soil is not reasonably accessible or subject to disturbance.
- Groundwater sampling below and adjacent to the historically impacted zone confirmed no leaching or exceedance of groundwater RBCs.
- The area is isolated, stable, and poses no realistic exposure pathway under current or anticipated site use.

13.2 Protection of Human Health and the Environment

Based on the data collected and remedial measures completed, it is our professional opinion that no current or future human receptors are at risk from residual contamination. Potential ecological receptors are not present in the residual impacted area and no surface water features exist that would be vulnerable to remaining soil conditions. Based on the foregoing, the residual risk is de minimis and does not warrant further action, institutional controls, or monitoring.

13.3 Inspection, Maintenance, and Residuals Management

No engineered controls were installed, and no ongoing maintenance appears warranted. All accessible impacted soil was disposed of off-site at a permitted landfill. No investigation-derived waste, stockpiles, or remediation residuals remain on the Subject Property.

14. SUMMARY, CONCLUSIONS, AND RECOMMENDATIONS

This report has been prepared for Cleanup Site No. 6737 located in Clackamas County, Oregon. The 1.40-acre Subject Property is comprised of Tax Lots 3000 and 3800 of Clackamas County Tax Map 3S3E06B and has generally consisted of vacant land.

Site investigation and cleanup activities included targeted subsurface investigation, removal of petroleum-impacted soil, rerouting of a historical offsite drainpipe, and confirmation sampling of soil and groundwater. The results of these efforts demonstrate that all accessible impacted media have been addressed and residual risk is within acceptable regulatory limits. No engineering or institutional controls are proposed or required.

Based on the data and conclusions presented in the report, we respectfully request a determination of No Further Action (NFA) for the Subject Property.



15. REFERENCES

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- Succeed Environmental Consulting LLC. (2023–2025). Field Notes, Exploration Logs, and Site Documentation for Redland ICP Project. Portland, Oregon.
- Clean Fill Determinations, Guidance prepared by DEQ Materials Management, dated February 21, 2019. https://www.oregon.gov/deq/filtered%20library/imdcleanfill.pdf



We sincerely appreciate the opportunity to be of service to you. Please call if you have questions regarding this report.

Sincerely,

Succeed Environmental Consulting LLC

anher Blake

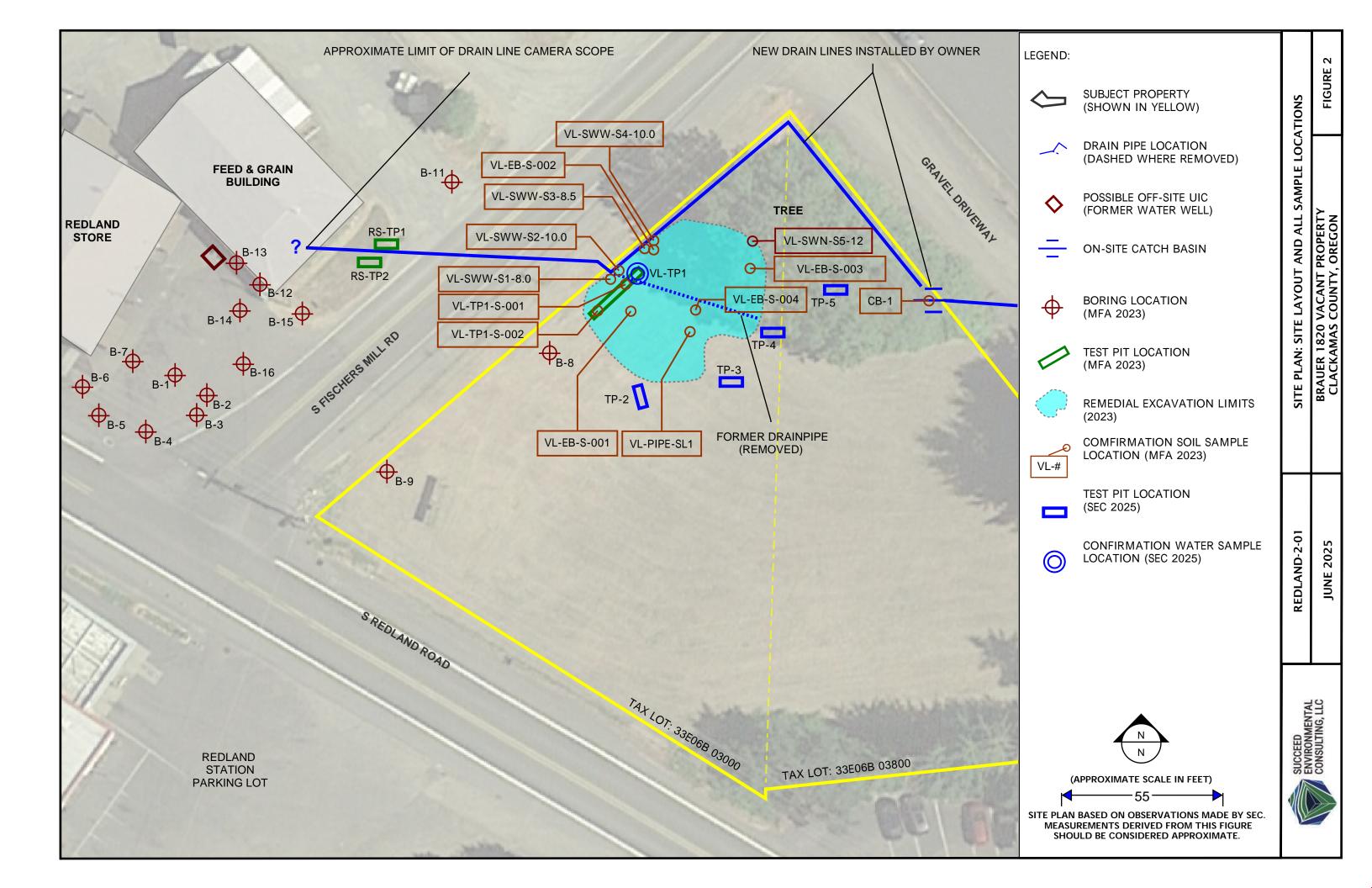
Andrew S. Blake, R.G. Principal Geologist

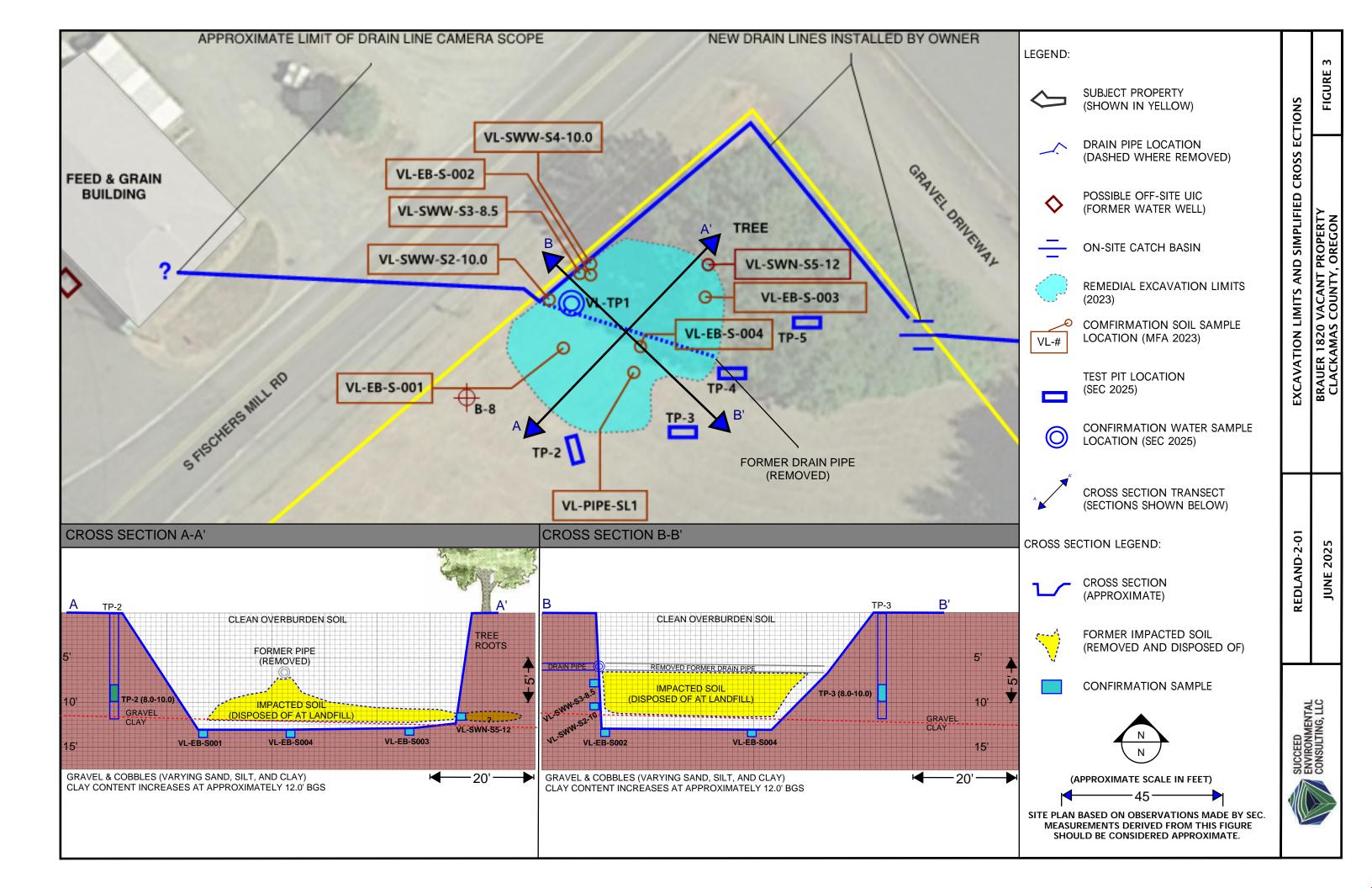




FIGURES













VIEW OF THE ONSITE TEST PIT "TP-1" DURING EXPLORATION. PHOTOGRAPH TAKEN FACING NORTH.



VIEW OF IMPACTED SOIL ENCOUNTERED DURING EXPLORATION OF ONSITE TEST PIT "TP-1" TAKEN FACING NORTHEAST. THIS MATERIAL WAS LATER EXCAVATED AND DISPOSED OF.

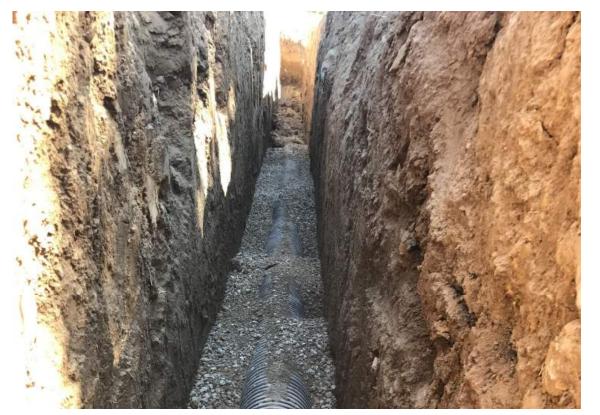








VIEW OF THE DRAIN PIPE, WHERE THE OWNER RE-ROUTED THE LINE USING WATERTIGHT, GASKETED DUAL-WALL PIPING.



NORTHERLY VIEW OF THE DRAIN PIPE, WHERE THE OWNER RE-ROUTED THE LINE USING WATERTIGHT, GASKETED DUAL-WALL PIPING.

FIGURE 5



VIEW OF GREEN DYE OBSERVED IN THE REDLAND STORE FORMER UIC IMMEDIATELY FOLLOWING INSERTION OF DYE INTO THE REDLAND STORE TOILET.



VIEW OF THE APPROXIMATE DRAIN LINE DURING UTILITY LOCATING ACTIVITIES AT THE SUBJECT PROPERTY. THE DRAIN LINE ORIGINATES AT THE REDLAND STORE.





VIEW OF THE TOILET AT THE REDLAND STORE, WHERE GREEN DYE WAS INSERTED. GREEN DYE WAS IMMEDIATELY OBSERVED IN THE FORMER UIC, AND IN THE ON-SITE CATCH BASIN SHORTLY THEREAFTER.



VIEW OF THE GREEN DYE DISCHARGING INTO THE ON-SITE CATCH BASIN FOLLOWING INSERTION INTO THE REDLAND STORE TOILET.

VIEW OF FINAL REMEDIAL EXCAVATION LIMITS AT THE SUBJECT PROPERTY. PHOTOGRAPH TAKEN FACING WEST.



VIEW OF IMPACTED SOIL DISPOSAL DURING REMEDIAL EXCAVATION. IMPACTED SOIL WAS SENT TO THE HILLSBORO LANDFILL. PHOTOGRAPH TAKEN FACING EAST.





FIELD SCREENING PERFORMED DURING REMEDIAL EXCAVATION ACTIVITIES. PHOTOGRAPH TAKEN FACING WEST.



VIEW OF THE FINAL NORTHERN REMEDIAL EXCAVATION LIMITS. PHOTOGRAPH TAKEN FACING NORTH-NORTHWEST.



VIEW OF THE CONTENTS OF THE REDLAND STORE'S FORMER UIC PRIOR TO PUMPING ACTIVITIES.





VIEW OF THE CONTENTS OF THE REDLAND STORE'S FORMER UIC DURING PUMPING ACTIVITIES.



VIEW OF THE CONTENTS OF THE REDLAND STORE'S FORMER UIC FOLLOWING PUMPING ACTIVITIES.





TABLES

TABLE 1

SOIL CHEMICAL ANALYTICAL RESULTS BRAUER 1820 VACANT PROPERTY CLEANUP S REDLAND ROAD & S FISHERS MILL ROAD CLACKAMAS COUNTY, OREGON

	1		1		1				1				1
				Method	6020B	NWTPH- Gx HCID	NWTPH- Dx HCID	NWTPH- Dx HCID	8260D	8260D	8260D	8260D	8260D
Sample ID	Sample Depth (Feet BGS)	Date Collected	Collected By	Analyte	TCLP LEAD	GASOLINE-RANGE	DIESEL-RANGE	OIL-RANGE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL	NAPHTHALENE
		<u> </u>		Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
EXPLORATORY S		T	1		1	2.010	120	55.1.11	0.0700.11	0.204.77	0.221.7	0.501.11	1017
VL-TP1-S-001	8.0 - 9.0 8.0 - 9.0	9/5/2023	MFA	Result	0.0250 U	3,010	138	55.1 U	0.0788 U	0.394 U 0.0344 U	0.331 J	0.591 U	1.21 J
VL-TP1-S-002 ¹		9/5/2023	MFA	Result		3.44 U	12.8 U	25.6 U	0.00688 U		0.0172 U	0.0516 U	0.0688 U 0.0704 U
VL-B8-S-11.5	11.5	9/8/2023	MFA MFA	Result		3.52 U	13.9 U	27.8 U	0.00704 U 0.00497 U	0.0352 U	0.0176 U	0.0528 U	
VL-B9-S-7	7.0 NA	9/8/2023 9/25/2023	MFA	Result Result		2.49 U 4.05 U	11.8 U 318	23.5 U 25.7 U	0.00497 U 0.00810 U	0.0249 U 0.0405 U	0.0124 U 0.0203 U	0.0373 U 0.0608 U	0.0497 U 0.0810 U
VL-PIPE-SL1 ¹	<u> </u>				l		l	l	0.00810 0	0.0403 0	0.0203 0	0.0008 U	0.0810 0
SOIL STOCKPILE	1		ı	1		1	1	1	0.00548 U	0.027411	0.0137 U	0.0411.11	0.0540.11
VL-SP-CS-002	NA NA	9/19/2023 9/19/2023	MFA MFA	Result		2.74 U 3.18 U	11.6 U	48.2 F-03	0.00548 U	0.0274 U 0.0318 U	0.0137 U 0.0159 U	0.0411 U 0.0476 U	0.0548 U 0.0635 U
VL-SP-CS-003 CONFIRMATION	<u> </u>	L		Result			14.0 J	34.6 J	0.00633 U	0.0318 U	0.0139 0	0.0476 0	0.0633 U
VL-SWW-S1-8.0	8.0	9/19/2023	MFA		EKI I FOLL	1	11.7 U	ı	0.00494 U	0.0247 U	0.0124 U	0.0371 U	0.0494 U
VL-SWW-S1-8.0 VL-SWW-S2-10.0	10.0	9/19/2023	MFA	Result		2.47 U 12.9	13.1 U	23.4 U	0.00494 U	0.0247 U	0.0124 U	0.0371 U 0.0481 U	0.0494 U
VL-SWW-S2-10.0 VL-SWW-S3-8.5	8.5	9/19/2023	MFA	Result Result		20.1	212 F-13	26.2 U 23.9 U	0.00642 U	0.0321 U 0.0257 U	0.0160 U	0.0481 U	0.0642 U
VL-SWW-S3-8.5 VL-SWW-S4-10.0	10.0	9/19/2023	MFA	Result		14.7	35.7 F-13	23.9 U	0.00314 U	0.0237 U	0.0129 U	0.0386 U	0.0314 U
VL-SWW-S4-10.0 VL-EB-S-001	13.0 - 14.0	9/19/2023	MFA	Result					0.00820 U	0.0410 U	0.0203 U 0.0166 U	0.0498 U	0.0620 U
	13.0 - 14.0	9/19/2023	MFA			3.32 U 3.43 U	13.1 U	26.3 U 25.0 U	0.00665 U	0.0332 U 0.0343 U	0.0166 U	0.0498 U 0.0514 U	0.0685 U
VL-EB-S-002				Result		4.13 U	13.4 J						
VL-EB-S-003	13.0 - 14.0	9/19/2023	MFA	Result			13.6 U	27.1 U	0.00826 U	0.0413 U 0.0369 U	0.0206 U 0.0185 U	0.0619 U	0.0826 U
VL-EB-S-004	13.0 - 14.0	9/19/2023 9/19/2023	MFA	Result		3.69 U	13.1 U	26.1 U 27.7 U	0.00738 U 0.0138 U	0.0369 U		0.0554 U	0.0738 U
VL-SWN-S5-12.0	8.0 - 10.0	4/13/2025	MFA SEC	Result		619 9.97 U	27.7 F-13 24.9 U	49.8 U	0.0138 U	0.0689 U 0.0997 U	0.303 0.0499 U	0.749 0.150 U	0.444 0.199 U
TP-2 (8.0-10.0) TP-3 (8.0-10.0)	8.0 - 10.0	4/13/2025	SEC	Result		9.97 U	25.4 U	50.7 U	0.0199 U 0.0227 U	0.0997 U	0.0499 U 0.0568 U	0.130 U	0.199 U 0.227 U
TP-4 (8.0-10.0)	8.0 - 10.0	4/13/2025	SEC	Result Result		10.2 U	24.4 U	48.9 U	0.0227 U	0.114 U	0.0568 U	0.170 U	0.227 U
	8.0 - 10.0	4/13/2025	SEC	Result		8.00 U	23.2 U	46.4 U	0.0203 U	0.0800 U	0.0400 U	0.134 U	0.203 U
TP-5 (8.0-10.0) EXPLORATORY S	<u> </u>	L			NT DEDI AN		23.2 0	40.4 0	0.0100 0	0.0800 0	0.0400 0	0.120 0	0.100 C
RS-B1-S-8.5	8.5	9/8/2023	MFA	Result		5.35 J	18.0 J	27.6 U	0.00734 U	0.0367 U	0.0183 U	0.0550 U	0.0734 U
RS-B2-S-8.5	8.5	9/8/2023	MFA	Result		2.77 U	36.3	113	0.00555 U	0.0277 U	0.0139 U	0.0416 U	0.0555 U
RS-B3-S-12	12.0	9/8/2023	MFA	Result		3.56 U	13.1 U	26.1 U	0.00713 U	0.0356 U	0.0178 U	0.0534 U	0.0713 U
RS-B4-S-8	8.0	9/8/2023	MFA	Result		2.74 U	12.2 U	24.4 U	0.00548 U	0.0274 U	0.0177 U	0.0411 U	0.0548 U
RS-B5-S-6	6.0	9/8/2023	MFA	Result		2.73 U	12.2 J	67.3	0.00545 U	0.0273 U	0.0136 U	0.0409 U	0.0545 U
RS-B6-S-8	8.0	9/8/2023	MFA	Result		3.47 U	13.5 U	27.0 U	0.00694 U	0.0347 U	0.0174 U	0.0521 U	0.0694 U
RS-B10-SS-15.0	15.0	10/31/2024	MFA	Result		2.28 U	11.5 U	244	0.00457 U	0.0228 U	0.0114 U	0.0343 U	0.0914 U
RS-B11-SS-16.0	16.0	10/31/2024	MFA	Result		3.49 U	13.6 U	27.1 U	0.00699 U	0.0349 U	0.0175 U	0.0524 U	0.140 U
RS-B12-SS-12.5	12.5	10/31/2024	MFA	Result		6.49 U	16.5 U	32.9 U	0.0130 U	0.0649 U	0.0324 U	0.0973 U	0.260 U
RS-B13-SS-12.5	12.5	10/31/2024	MFA	Result		4.72 U	15.9 U	31.8 U	0.00944 U	0.0472 U	0.0236 U	0.0708 U	0.189 U
RS-B14-SS-12.0	12.0	10/31/2024	MFA	Result		4.85 U	15.9 U	31.8 U	0.00969 U	0.0485 U	0.0242 U	0.0727 U	0.194 U
RS-B15-SS-8.0	8.0	10/31/2024	MFA	Result		143	14.0 U	28.1 U	0.00737 U	0.0368 U	0.0184 U	0.0553 U	0.147 U
RS-B16-SS-7.0	7.0	10/31/2024	MFA	Result		190	60.8	25.4 U	0.00597 U	0.0299 U	0.0149 U	0.0448 U	0.119 U
RSTP1-SS-8.0	8.0	10/31/2024	MFA	Result		3.00 U	12.2 U	24.4 U	0.00601 U	0.0300 U	0.0150 U	0.0451 U	0.120 U
RSTP1-SS-10.0	10.0	10/31/2024	MFA	Result		3.50 U	14.0 U	28.0 U	0.00700 U	0.035 U	0.0175 U	0.0525 U	0.140 U
RS-TP2-SS-10.5	10.5	11/10/2023	MFA	Result		4.43 U	13.2 U	26.4 U	0.00885 U	0.00443 U	0.0221 U	0.0664 U	0.177 U
RS-TP2-SS-11.5	11.5	11/10/2023	MFA	Result		4.27 U	14.4 U	28.8 U	0.00855 U	0.00427 U	0.0214 U	0.0641 U	0.171 U
RS-TP2-SS-11.7	11.7	11/10/2023	MFA	Result		4.33 U	15.0 U	29.9 U	0.00866 U	0.00433 U	0.0216 U	0.0649 U	0.173 U
DEQ Soil Ingestion,	l .	1	Occupa	tional		20,000	14,000		37	88,000	150	25,000	23
RBCs	a contact,	,	Construction Excavation			9,700 >Max	4,600 >Max		380 11,000	28,000 770,000	1,700 49,000	20,000 560,000	580 16,000
DEQ Volatilization			Occupa	tional		69,000	>Max		50	>Csat	160	>Csat	83
DEQ Soil Leaching t	to Groundwater l	KBCs	Occupa	tional		130	>Max		0.1	490	0.9	100	0.34

TABLE 1

SOIL CHEMICAL ANALYTICAL RESULTS BRAUER 1820 VACANT PROPERTY CLEANUP S REDLAND ROAD & S FISHERS MILL ROAD

				Method	6020B	NWTPH- Gx HCID	NWTPH- Dx HCID	NWTPH- Dx HCID	8260D	8260D	8260D	8260D	8260D
Sample ID	Sample Depth (Feet BGS)	Date Collected	Collected By	Analyte	TCLP LEAD	GASOLINE-RANGE	DIESEL-RANGE	OIL-RANGE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL	NAPHTHALENE
				Units	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
	DEQ CFSLs - 31 1,100 0.023 23 0.22 1.4 0.077												0.077

1. Soil represented by this sample was excavated and disposed of at the Hillsboro Landfill.

-: Not Analyzed / Not Applicable
U: Not Detected at a Concentration Greater Than Corresponding RDL (Noted)

Shading Indicates Concentration Exceeding Applicable RBC

F-13: Chromatographic Pattern Does Not Resemble the Fuel Standard Used for Quantitation.

J: Estimated Result. Result Detected Below the Lowest Point of the Calibration Curve, but Above the MDL.

Bolding Indicates Analyte Detection.

DEQ RBCs dated August 2023.

DEQ CFSLs dated February 2019.

>Max: Does not pose a risk in this secnerio.

>Csat: RBC Exceeds the limit of three-phase equilibrium partitioning.

TABLE 2

GROUNDWATER CHEMICAL ANALYTICAL RESULTS BRAUER 1820 VACANT PROPERTY CLEANUP S REDLAND ROAD & S FISHERS MILL ROAD

CLACKAMAS COUNTY, OREGON

													J
				Method	C.M.P.	NWTPH- Gx HCID	NWTPH- Dx HCID	NWTPH- Dx HCID	8260D	8260D	8260D	8260D	8260D
Sample ID	Sample Location	Date Collected	Collected By	Analyte	E. coli	GASOLINE-RANGE	DIESEL-RANGE	OIL-RANGE	BENZENE	TOLUENE	ETHYLBENZENE	XYLENES, TOTAL	NAPHTHALENE
				Units	MPN/100 mL	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L	µg/L
WATER SAMPLES COI	LLECTED AT THE SUBJ	ECT PROPER						1			1		
CB-1	On-Site Catch Basin	9/5/2023	MFA	Result	1,730	50.0 U	99.0 U	198 U	0.100 U	0.500 U	0.250 U	0.750 U	2.00 U
VL-GW-001	On-Site Catch Basin	4/10/2024	MFA	Result	4.10		-			-			
TP-1	On-Site TP-1	4/13/2025	SEC	Result		100 U	340	392 U	0.200 U	1.00 U	0.500 U	1.5 U	5.00 U
WATER SAMPLES COI	LLECTED IN THE SUBJ	ECT PROPERT	TY VICINITY										
RG-GW-001	Redland Station Well	4/10/2024	MFA	Result	1.00 U	-						-	
DB-GW-001	Dan Brauer's Well	4/10/2024	MFA	Result	1.00 U								
RD-GW-001	Dental Office Well	4/10/2024	MFA	Result	1.00 U								
RS-TP1-GW-9.5	ROW Test Pit 1	10/31/2023	MFA	Result	1,550	50.0 U	111 U	222 U	0.100 U	0.500 U	0.250 U	0.750 U	2.50 U
RS-TP2-GW-12.5	ROW Test Pit 2	11/10/2023	MFA	Result		50.0 U	115 U	230 U	0.100 U	0.500 U	0.250 U	0.750 U	2.50 U
RS-TP2-GW-ecoli	KOW Test Fit 2	11/10/2023	MFA	Result	121	-	-		-	-			-
DEQ Ingestion, Dermal Co	ontact, & Inhalation From T	apwater RBCs	Occupa	tional		450	430		2.1	6,300	6.4	830	0.72
DEQ Volatilization to Outo	door Air RBCs		Occupa	tional		>S	>S		14,000	>S	43,000	>S	16,000
DEQ Chronic Vapor Intrus	ion into Buildings RBCs		Comm	ercial		520	1,700		12	150,000	31	3,300	50
DEQ Acute Vapor Intrusion	n into Buildings RBCs		Comm	ercial					650	160,000	420,000	200,000	83,000
DEQ Groundwater in Exca	vation RBCs		Const. & Excav	ation Worker		14,000	>S		1,800	220,000	4,500	23,000	500

Notes:

--: Not Analyzed / Not Applicable

U: Not Detected at a Concentration Greater Than Corresponding RDL (Noted)

Shading Indicates Concentration Exceeding Corresponding RBC

Bolding Indicates Analyte Detection.

DEQ RBCs dated August 2023. Vapor Intrusion RBCs dated March 2024.

>S: RBC Exceeds the solubility limit.





APPENDIX A

SEC observed subsurface explorations and obtained soil and vapor/air samples during this assessment. The soil encountered in the explorations was visually classified in general accordance with ASTM D 2488.

SOIL FIELD SCREENING AND SAMPLING

SEC performed field screening tests on selected soil samples collected from the explorations. Field screening results aided in the selection of soil samples for chemical analysis. Screening methods included visual examination, water sheen screening, and headspace vapor screening as described below:

Visual screening consisted of inspecting the soil for discoloration indicative of the presence of petroleum material in the sample.

Water sheen screening involved placing soil in water and observing the water surface for signs of sheen. Sheen classifications are as follows:

No Sheen: No visible sheen on the water surface.

Slight Sheen: Light, colorless, dull sheen; spread is irregular, not rapid; sheen dissipates rapidly. Natural organic matter in the soil may produce slight sheen.

Moderate Sheen: Light to heavy sheen; may have some color/iridescence; spread is irregular to flowing, may be rapid; few remaining areas of no sheen on water surface.

Heavy Sheen: Heavy sheen with color/iridescence; spread is rapid; entire water surface may be covered with sheen.

The samples selected for analysis were collected in laboratory-supplied containers and immediately placed in an ice chest and kept cool until delivery to the laboratory. Standard chain-of-custody procedures were observed during transport of the samples to the laboratory.

DECONTAMINATION

All sampling equipment used in the collection of samples was decontaminated prior to use. Decontamination was performed on all sample re-usable processing equipment that came into contact with sampling media, including tools, stainless steel implements, trowels, etc. Decontamination was performed prior to sampling each location using the following procedures:

- 1. Rinsed with tap water and scrubbed with a scrub brush until free of large particles (e.g., sediment or soil)
- 2. Washed with phosphate-free (Alconox™) detergent solution
- 3. Rinsed with tap water
- 4. Rinsed with distilled water

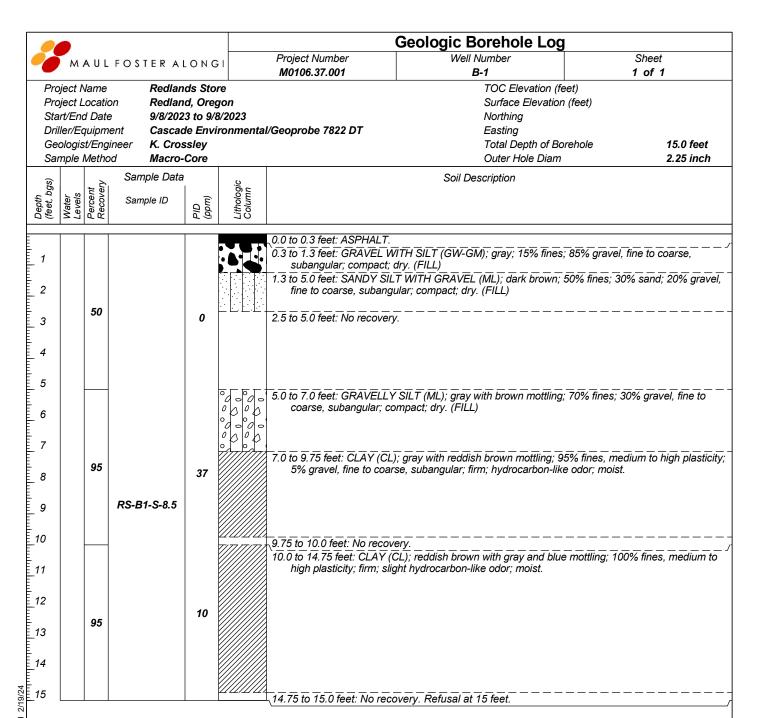
Logged By: A.B.				Started:			Contractor:			Excav	ator Type:			
Exca	Excavator: D.J. Locate Number:			Completed:	4/13/25	D&ł	C Excavation and				thi TB250-2			
Loca	te Num	ber:		Backfilled:			Trucking LLC		Bucket Size: 18"					
24	4331282)	Groundwater Depth: Elevation: Seep @ 10.0 Feet BGS Not Measured						Total Depth of Exploration:					
Depth (feet)	Graphic Log			<u>эсср ш 10.0 г</u>			PID Result (ppm)	Sheen Test Result	Additional Comments					
_							and Silt, Moist, FII		0	NS				
_				Becomes Wit	h Cobbles				0	NS				
5 —				Becomes Reddish-Gray and With Varying Clay and Silt						NS				
_									0	NS	No Odors or Staining Observed			
10 —									0	NS				
_				Excavation C	omplete at	12 Fee	et BGS		0	NS	Water Sample TP-1 Collected			
											via 1.0" PVC Well Screen			
		SUC ENV CON	CEEI IRON SUL	D NMENTAL TING, LLC	Redland	d-2		·-1						
	E Broadwa	-		ortland, OR 97232 071.371.0404	June 20	25	Brauer 1820 Clackamas				Appendix A			

Logge	ed By:	A.B.		Started:			Contractor:			Excav	ator Type:			
Exca	vator:	DJ.	Date	Completed:	4/13/25	D&ł	〈 Excavation and				:hi TB250-2			
Loca	te Num	ber:	1	Backfilled:			Trucking LLC		Bucket Size: 18"					
2	4331282	<u>)</u>	Groundwater Depth: Elevation: Not Encountered Not Measured						Total Depth of Exploration:					
Depth (feet)	Graphic Log			NOT ERICOU		Description	NOT INTERSURED		PID Result (ppm)	Sheen Test Result	Additional Comments			
_							and Silt, Moist, FII		0	NS	Soil Sample			
_				Becomes Wit	h Cobbles				0	NS	TP-2(8.0-10.0) Collected			
5 —				Becomes Reddish-Gray and With Varying Clay and Silt						NS				
_									0	NS	No Odors or Staining Observed			
10 —									0	NS				
_				Excavation C	omplete at	12 Fee	et BGS		0	NS				
_ _ _ 15														
		SUCO ENVI CON:	RON) IMENTAL FING, LLC	Redland	d-2		Ex	plorat	ion TP	P-2			
	E Broadwa	-		rtland, OR 97232 71.371.0404	June 20	25	Appendix A							

Logge	ed By:	A.B.		Started:			Contractor:			Excav	ator Type:			
Exca	vator:	D.J.	Date	Completed:	4/13/25	D&ł	Excavation and				:hi TB250-2			
Loca	te Num	ber:		Backfilled: Trucking LLC				Bucket Size: 18"						
2.	4331282	2	Groundwater Depth: Elevation: Not Encountered Not Measured						Total Depth of Exploration:					
Depth (feet)	Graphic Log			NOT ERICOU	•	Description	NOT INTEASURED		PID Result (ppm)	Sheen Test Result	Additional Comments			
_							and Silt, Moist, FI Cobble, Moist	LL	0	NS	Soil Sample			
_									0	NS	TP-3(8.0-10.0) Collected			
5 —				Becomes Rec Clay and Silt	comes Reddish-Gray and With Varying ay and Silt									
_									0	NS	No Odors or Staining Observed			
10 —									0	NS				
_				Excavation C	omplete at	12 Fee	et BGS		0	NS				
_ _ _ 15														
		SUCC ENVI CON	ROI	D NMENTAL TING, LLC	Redland	d-2		Ex	plorat	ion TP	2-3			
	E Broadwa	-		ortland, OR 97232 071.371.0404	June 20	25	Appendix A							

Logge	ed By:	A.B.		Started:			Contractor:			Excav	ator Type:			
Exca	vator:	DJ.	Date	Completed:	4/13/25	D&ł	Excavation and				:hi TB250-2			
Loca	te Num	ber:		Backfilled:			Trucking LLC	Bucket Size: 18"						
2.	4331282	2	Groundwater Depth: Elevation: Not Encountered Not Measured						Total Depth of Exploration:					
Depth (feet)	Graphic Log			NOT ERICOG		Description				Sheen Test Result	Additional Comments			
_				-			and Silt, Moist, FI		0	NS	Soil Sample			
_				Becomes Wit	h Cobbles				0	NS	TP-4(8.0-10.0) Collected			
5 —									0	NS				
_									0	NS	No Odors or Staining Observed			
10 —									0	NS				
_				Excavation C	omplete at	12 Fee	et BGS		0	NS				
_ _ _ 15														
		SUCO ENVI CON:	RON	D NMENTAL TING, LLC	Redland	Redland-2 E				ion TP	P-4			
	E Broadwa	-		rtland, OR 97232 71.371.0404	June 20	25	Brauer 1820 Clackamas				Appendix A			

Logg	ed By:	A.B.		Started:			Contractor:		Excavator Type:				
Exca	vator:	DJ.	Date	Completed:	4/13/25	D&ł	〈 Excavation and				:hi TB250-2		
Loca	te Num	ber:		Backfilled:			Trucking LLC			Buc	ket Size: 18"		
2.	4331282	2		Groundwater Not Encour			Elevation: Not Measured		Total Depth of Exploration:				
Depth (feet)	Graphic Log			NOT ERICOU	•	Description		PID Result (ppm)	Sheen Test Result	Additional Comments			
_							and Silt, Moist, FI Cobble, Moist	LL	0	NS	Soil Sample		
_									0	NS	TP-5(8.0-10.0) Collected		
5 —				Becomes Rec Clay and Silt	ddish-Gray	and W	ith Varying		0	NS			
 -									0	NS	No Odors or Staining Observed		
10 —									0	NS			
_				Excavation C	omplete at	12 Fee	et BGS		0	NS			
_ _ _ 15													
		SUCO ENVI CON:	RON) IMENTAL FING, LLC	Redland	d-2		Ex	Exploration TP-5				
	E Broadwa	-		rtland, OR 97232 71.371.0404	June 20	25	Brauer 1820 Clackamas				Appendix A		



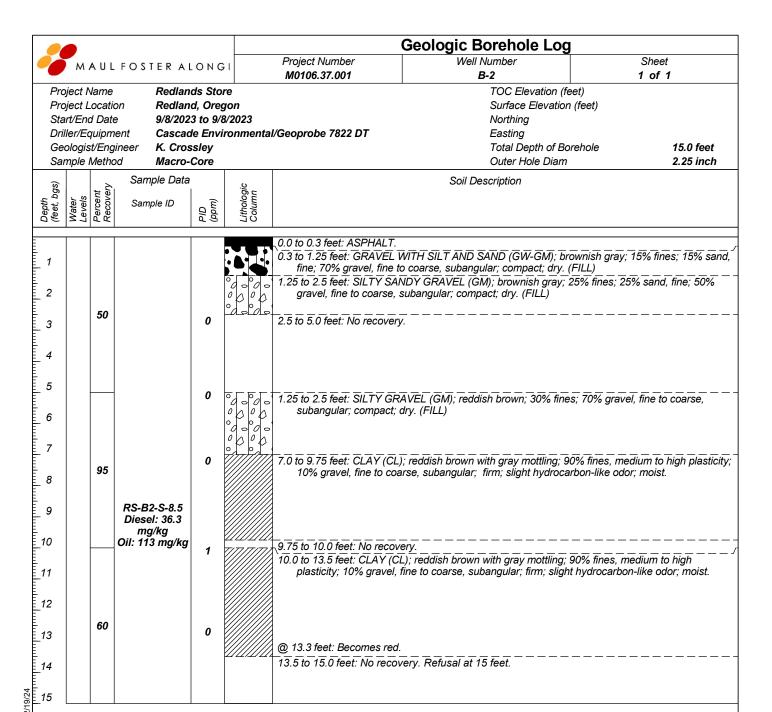
NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



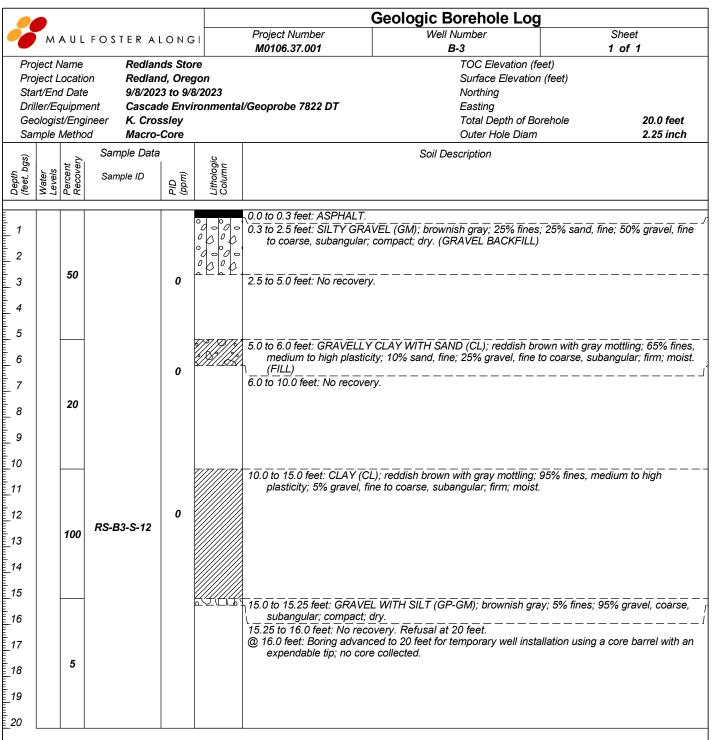
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Borehole Completion Details 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

0.0 to 20.0 feet: 2.25-inch borehole

Borehole Abandonment Details 0.0 to 0.3 feet: Asphalt cold patch.



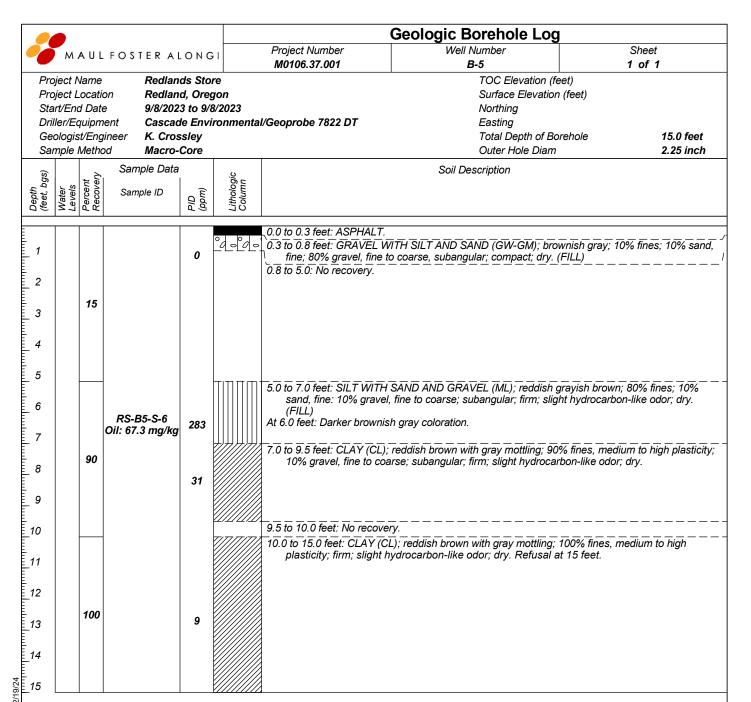
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<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



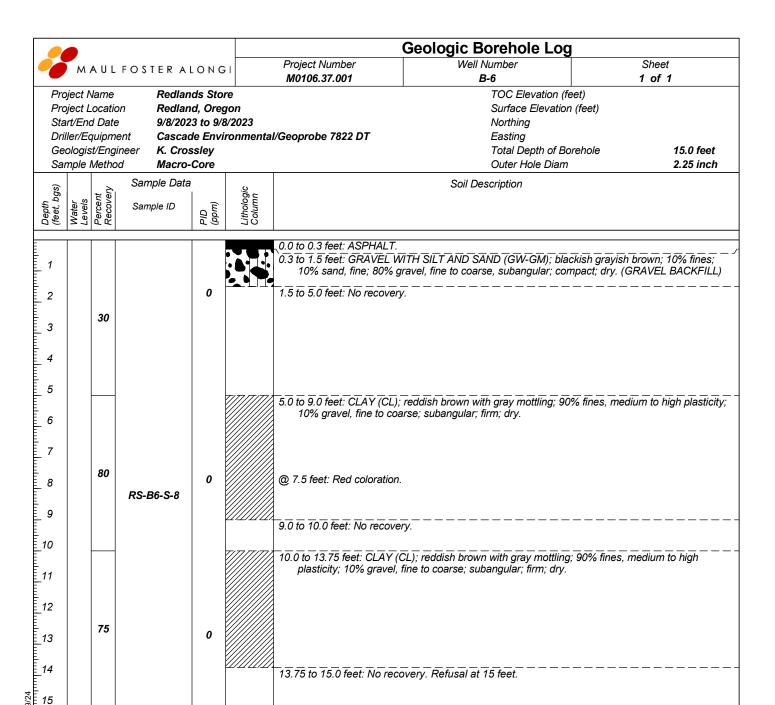
NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.

NOTES:

10

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

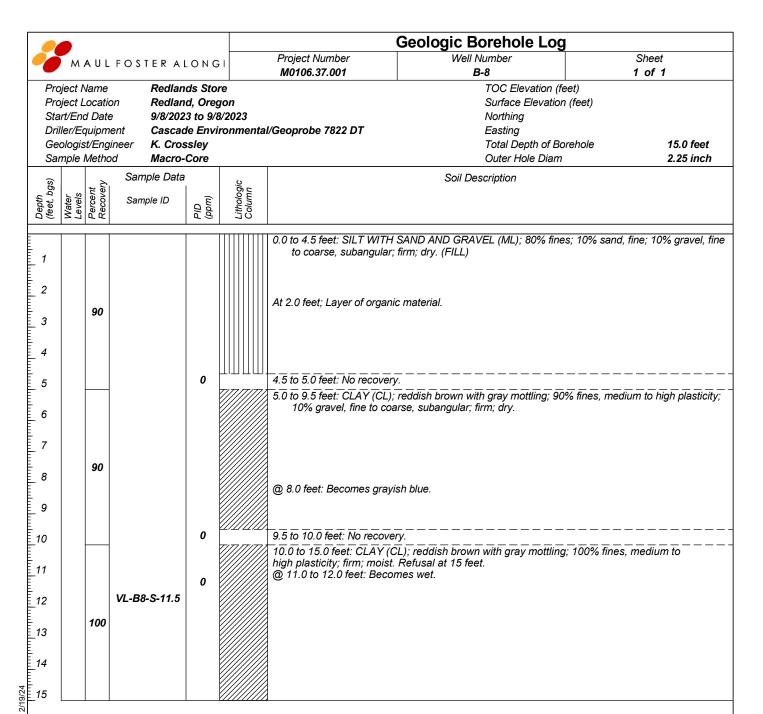
<u>Borehole Completion Details</u> 0.0 to 10.0 feet: 2.25-inch borehole

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.

0.3 to 10.0 feet: Bentonite chips hydrated with potable water. No soil sample collected for laboratory analysis.

MFA BOREHOLE W/WELL W:\GINT\GINTW/PROJECTS\0106.37\BORINGS.GPJ 2/19/24

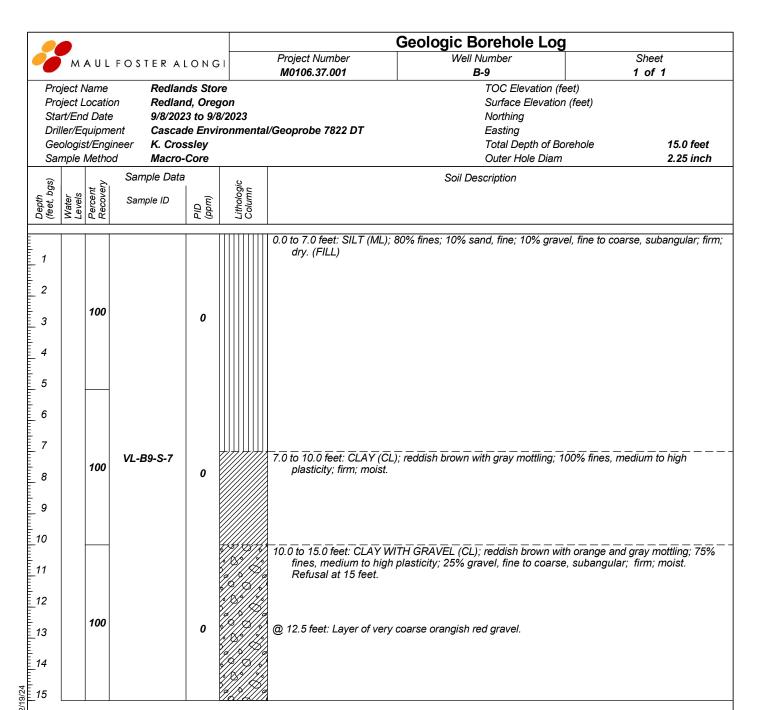


NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details

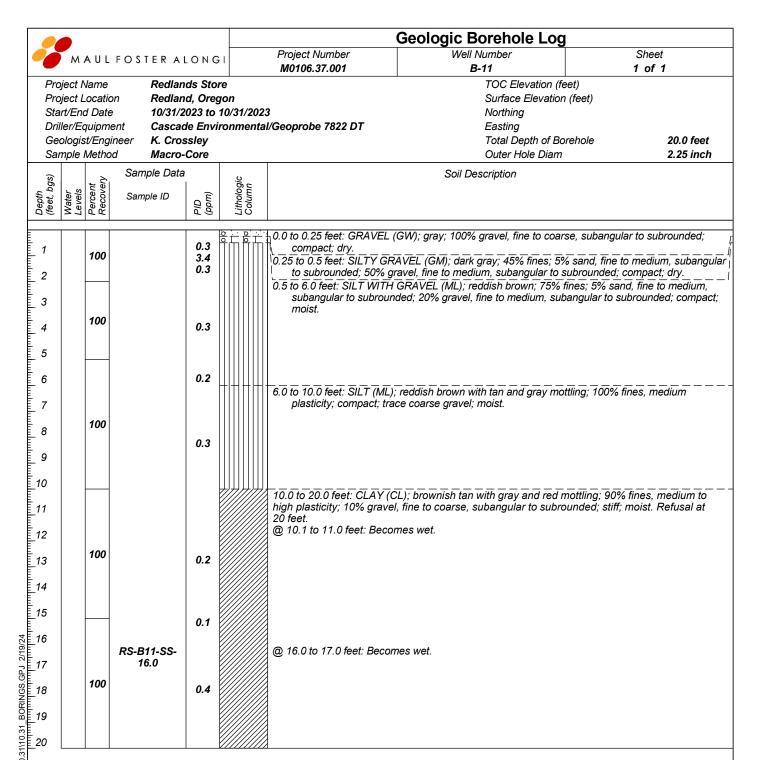


NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

<u>Borehole Completion Details</u> 0.0 to 15.0 feet: 2.25-inch borehole

Borehole Abandonment Details



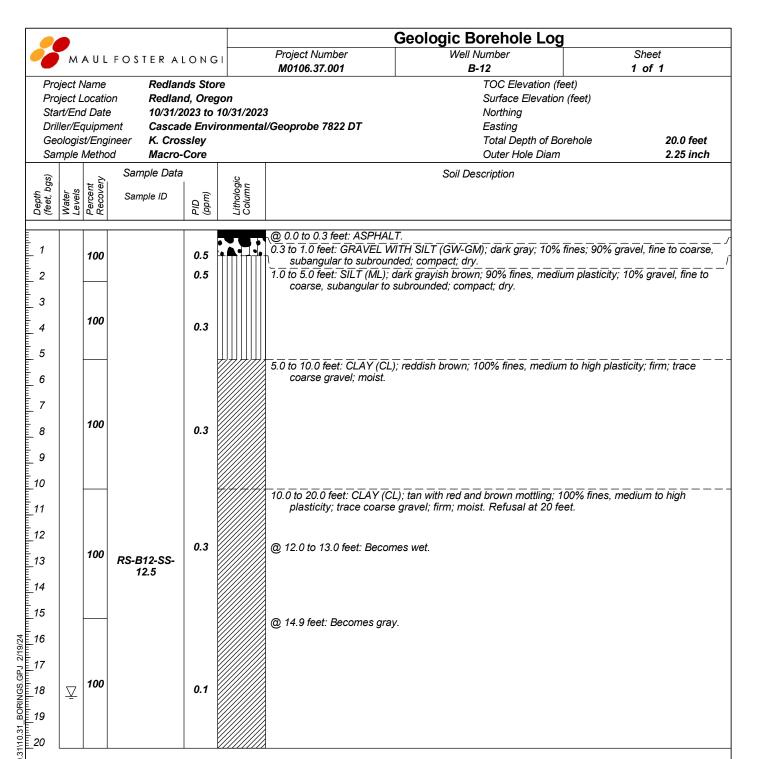
NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details



NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

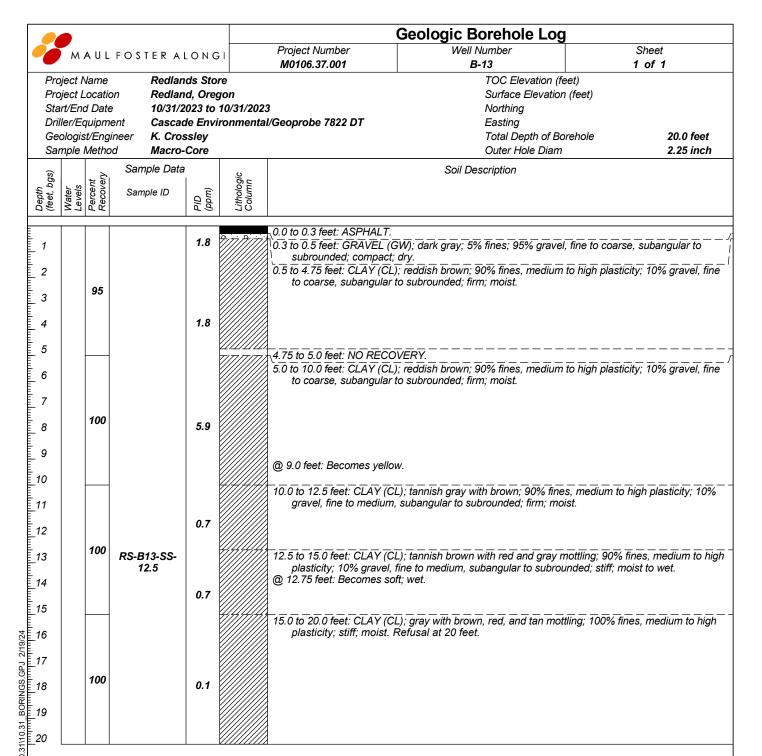
0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.

0.3 to 20.0 feet: Bentonite chips hydrated with potable water.

Water level measured at 18.0 feet bgs following drilling.



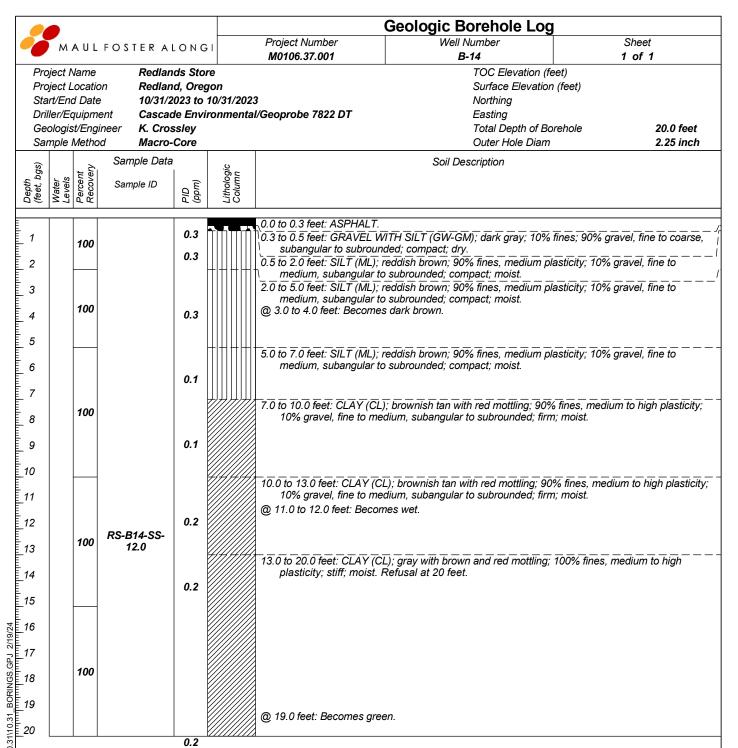
NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details 0.0 to 0.3 feet: Asphalt cold patch.



NOTES:

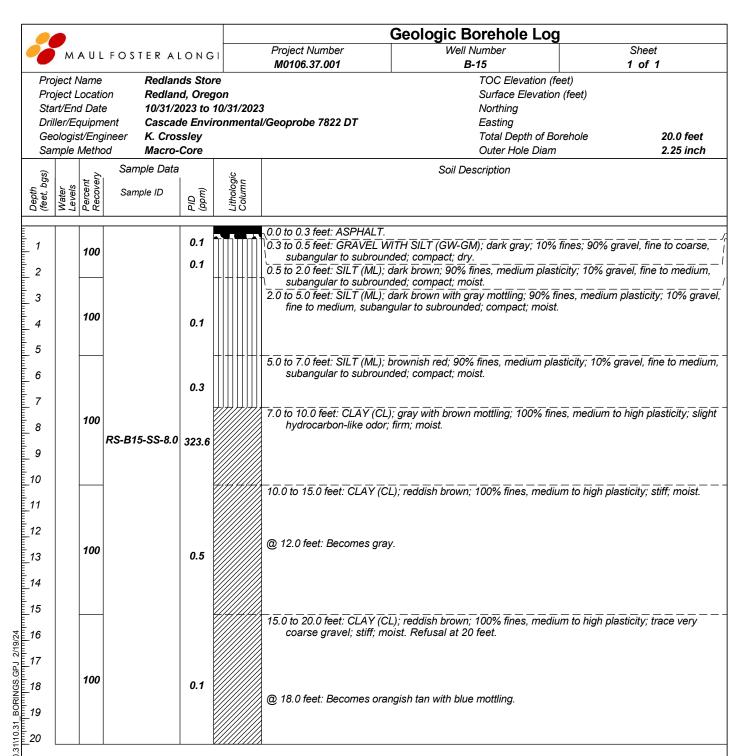
1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



Total Depth = 20.0 feet bgs

NOTES:

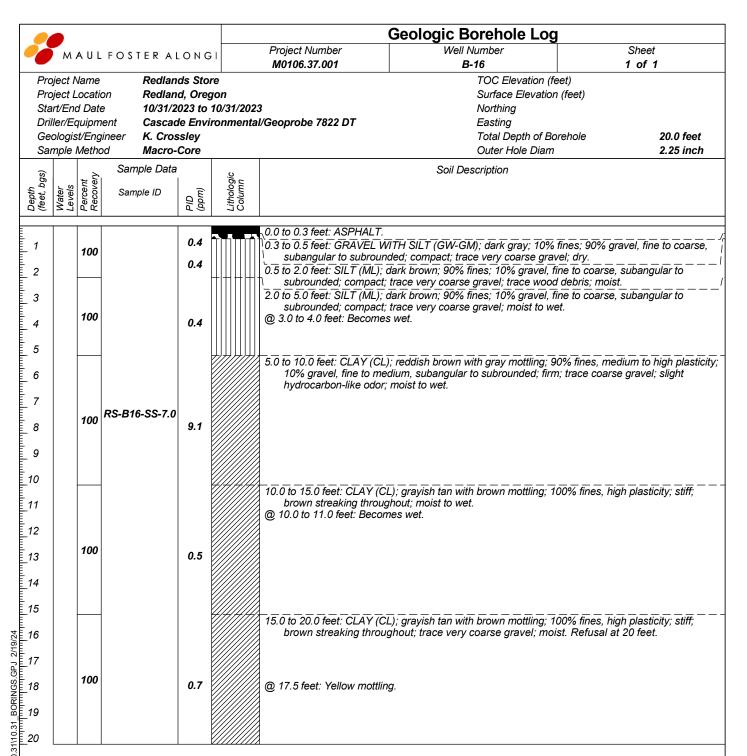
1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

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0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details

0.0 to 0.3 feet: Asphalt cold patch.



NOTES:

1) bgs = below ground surface. 2) Depths are relative to feet bgs. 3) ID = identification. 4) PID = photoionization detector. 5) ppm = parts per million.

Borehole Completion Details

0.0 to 20.0 feet: 2.25-inch borehole.

Borehole Abandonment Details 0.0 to 0.3 feet: Asphalt cold patch.



APPENDIX B

CHEMICAL ANALYTICAL PROGRAM

Chain-of-custody procedures were followed during handling and transport of the samples to the analytical laboratory. The laboratory holds the samples in cold storage pending extraction and/or analysis. The analytical results, analytical methods reference, and laboratory QC records are presented in this appendix. The analytical results also are summarized in the tables of this report.

REVIEW OF ANALYTICAL DATA

The analytical laboratories used for this project maintain an internal quality assurance programs consisting of a combination of the following:

Blanks: Blanks are laboratory-prepared water samples that are free of contaminants. The blanks are carried through the analysis procedure along with the field samples to document that contaminants were not introduced to the samples during sample handling and analysis.

Surrogate Recoveries: Surrogates are organic compounds that are similar in nature to the analytes of concern but are not normally found in nature. The surrogates are added to QC and field samples prior to analysis. The percent recovery of the surrogate is calculated to demonstrate acceptable method performance.

Duplicates: Duplicates are obtained by splitting a sample into two parts. The two separate parts are carried through the analyses. The analytical results are then compared by calculating the RPD between the samples.

MS/MSD Recoveries: An MS sample is a sample that has been split into a second portion. The MSD is obtained by further splitting the MS sample. A known concentration of the analyte of interest is added to the MS and MSD samples. The analytical results for both samples are then compared for RPD and percent recovery to demonstrate acceptable method performance.

BS/BSD Recoveries: BS and BSD samples are obtained and analyzed in the same procedure as the MS/MSD samples; however, the laboratory blank sample is used to obtain the BS/BSD samples. The percent recovery and RPD of the known concentration of analyte of interest added to the BS/BSD sample is calculated after chemical analyses to demonstrate acceptable method performance.

SUMMARY OF ANALYTICAL DATA REVIEW

SEC reviewed the attached analytical data reports for data quality exceptions and deviations from acceptable method performance criteria. Based on our review of the analytical reports, the analytical data appear acceptable for their intended use.



Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3I0736 - Redland - 0106.37.001

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 A3I0736, which was received by the laboratory on 9/5/2023 at 12:19:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 8.7 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

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.

Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
CB-1	A3I0736-01	Water	09/05/23 11:00	09/05/23 12:19
TRIP	A3I0736-02	Water	09/05/23 11:00	09/05/23 12:19

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Philip Nerenberg, Lab Director

Philip Marenberg

Page 2 of 17



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

ANALYTICAL SAMPLE RESULTS

	Diesel and/or Oil Hydrocarbons by NWTPH-Dx												
	Sample	Detection	Reporting			Date							
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes					
CB-1 (A3I0736-01)				Matrix: Wate	ər	Batch:	2310247						
Diesel	ND	0.0990	0.198	mg/L	1	09/09/23 00:00	NWTPH-Dx						
Oil	ND	0.198	0.396	mg/L	1	09/09/23 00:00	NWTPH-Dx						
Surrogate: o-Terphenyl (Surr)		Reco	very: 89 %	Limits: 50-150 %	6 I	09/09/23 00:00	NWTPH-Dx						

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 3 of 17



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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

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				
CB-1 (A3I0736-01)				Matrix: Wate	: 2310123							
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	09/06/23 18:39	NWTPH-Gx (MS)					
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 90 %	Limits: 50-150 %	5 1	09/06/23 18:39	NWTPH-Gx (MS)					
1,4-Difluorobenzene (Sur)			110 %	50-150 %	5 1	09/06/23 18:39	NWTPH-Gx (MS)					
TRIP (A3I0736-02)				Matrix: Wate	er	Batch	: 2310123					
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	09/06/23 13:00	NWTPH-Gx (MS)					
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 87 %	Limits: 50-150 %	5 1	09/06/23 13:00	NWTPH-Gx (MS)					
1,4-Difluorobenzene (Sur)			110 %	50-150 %	5 1	09/06/23 13:00	NWTPH-Gx (MS)					

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D												
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
CB-1 (A3I0736-01)				Matrix: Wate	r	Batch:	2310123					
Benzene	ND	0.100	0.200	ug/L	1	09/06/23 18:39	EPA 8260D					
Toluene	ND	0.500	1.00	ug/L	1	09/06/23 18:39	EPA 8260D					
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/06/23 18:39	EPA 8260D					
Xylenes, total	ND	0.750	1.50	ug/L	1	09/06/23 18:39	EPA 8260D					
Naphthalene	ND	2.00	4.00	ug/L	1	09/06/23 18:39	EPA 8260D					
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 97%	Limits: 80-120 %	1	09/06/23 18:39	EPA 8260D					
Toluene-d8 (Surr)			105 %	80-120 %	1	09/06/23 18:39	EPA 8260D					
4-Bromofluorobenzene (Surr)			98 %	80-120 %	1	09/06/23 18:39	EPA 8260D					
TRIP (A3I0736-02)				Matrix: Wate	er	Batch:	2310123					
Benzene	ND	0.100	0.200	ug/L	1	09/06/23 13:00	EPA 8260D					
Toluene	ND	0.500	1.00	ug/L	1	09/06/23 13:00	EPA 8260D					
Ethylbenzene	ND	0.250	0.500	ug/L	1	09/06/23 13:00	EPA 8260D					
Xylenes, total	ND	0.750	1.50	ug/L	1	09/06/23 13:00	EPA 8260D					
Naphthalene	ND	2.00	4.00	ug/L	1	09/06/23 13:00	EPA 8260D					
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 93 %	Limits: 80-120 %	1	09/06/23 13:00	EPA 8260D					
Toluene-d8 (Surr)			106 %	80-120 %	1	09/06/23 13:00	EPA 8260D					
4-Bromofluorobenzene (Surr)			100 %	80-120 %	1	09/06/23 13:00	EPA 8260D					

Apex Laboratories

Philip Merenberg

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Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

ANALYTICAL SAMPLE RESULTS

Conventional Microbiology Parameters												
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
CB-1 (A3I0736-01)				Matrix: Wat	ter							
Batch: 23I0101 E. coli	1730	1.00	1.00	MPN/100 mL	1	09/06/23 16:12	SM 9223 B					

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A310736 - 11 22 23 1556

QUALITY CONTROL (QC) SAMPLE RESULTS

		Di	iesel and/d	or Oil Hyd	lrocarbon	s by NW	ГРН-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0247 - EPA 3510C (I	Fuels/Acid	Ext.)					Wa	ter				
Blank (23I0247-BLK1)			Prepared	1: 09/08/23	12:25 Anal	lyzed: 09/08	/23 22:58					
NWTPH-Dx												
Diesel	ND	0.100	0.200	mg/L	1							
Oil	ND	0.200	0.400	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 91 %	Limits: 50)-150 %	Dilt	ution: 1x					
LCS (23I0247-BS1)			Prepared	1: 09/08/23	12:25 Ana	lyzed: 09/08	/23 23:19					
NWTPH-Dx												
Diesel	0.609	0.100	0.200	mg/L	1	1.25		49	36-132%			
Surr: o-Terphenyl (Surr)		Reco	very: 87 %	Limits: 50)-150 %	Dilt	ution: 1x					
LCS Dup (23I0247-BSD1)			Prepared	1: 09/08/23	12:25 Ana	lyzed: 09/08	/23 23:39					Q-1
NWTPH-Dx												
Diesel	0.597	0.100	0.200	mg/L	1	1.25		48	36-132%	2	30%	
Surr: o-Terphenyl (Surr)		Reco	very: 89 %	Limits: 50	0-150 %	Dilı	ution: 1x					

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Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A310736 - 11 22 23 1556

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 23I0123 - EPA 5030C							Wa	ter				
Blank (23I0123-BLK1)			Prepared	1: 09/06/23	10:00 Ana	lyzed: 09/06	/23 12:35					
NWTPH-Gx (MS) Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 88 % 111 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: 1x					
LCS (23I0123-BS2)			Prepared	d: 09/06/23	10:00 Ana	lyzed: 09/06	/23 11:28					
NWTPH-Gx (MS) Gasoline Range Organics	0.518	0.0500	0.100	mg/L	1	0.500		104	80-120%			
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 91 % 109 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: 1x					
Duplicate (23I0123-DUP1)			Prepared	1: 09/06/23	10:00 Ana	lyzed: 09/06	/23 20:55					
QC Source Sample: Non-SDG (A3	310709-05)											
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 89 % 110 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: 1x					

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	ounds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0123 - EPA 5030C							Wa	ter				
Blank (23I0123-BLK1)			Prepared	1: 09/06/23	10:00 Anal	yzed: 09/06	/23 12:35					
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Xylenes, total	ND	0.750	1.50	ug/L	1							
Naphthalene	ND	2.00	4.00	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			107 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			100 %	80	1-120 %		"					
LCS (23I0123-BS1)			Prepared	1: 09/06/23	10:00 Anal	lyzed: 09/06	5/23 11:50					
EPA 8260D												
Benzene	20.4	0.100	0.200	ug/L	1	20.0		102	80-120%			
Toluene	21.8	0.500	1.00	ug/L	1	20.0		109	80-120%			
Ethylbenzene	21.9	0.250	0.500	ug/L	1	20.0		110	80-120%			
Xylenes, total	67.0	0.750	1.50	ug/L	1	60.0		112	80-120%			
Naphthalene	17.7	2.00	4.00	ug/L	1	20.0		89	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 94 %	Limits: 80)-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			103 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			90 %	80	-120 %		"					
Duplicate (23I0123-DUP1)			Prepared	1: 09/06/23	10:00 Anal	yzed: 09/06	/23 20:55					
QC Source Sample: Non-SDG (A3	10709-05)											
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Toluene	ND	0.500	1.00	ug/L	1		ND				30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Xylenes, total	ND	0.750	1.50	ug/L	1		ND				30%	
Naphthalene	ND	2.00	4.00	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97%	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			106 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			96 %	80	-120 %		"					

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D												
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0123 - EPA 5030C							Wa	ter				
Matrix Spike (23I0123-MS1)			Prepared	1: 09/06/23	10:00 Ana	yzed: 09/06	/23 17:09					
QC Source Sample: Non-SDG (A3	<u>10780-01)</u>											
EPA 8260D												
Benzene	21.3	0.100	0.200	ug/L	1	20.0	ND	106	79-120%			
Toluene	21.8	0.500	1.00	ug/L	1	20.0	ND	109	80-121%			
Ethylbenzene	22.2	0.250	0.500	ug/L	1	20.0	ND	111	79-121%			
Xylenes, total	66.6	0.750	1.50	ug/L	1	60.0	ND	111	79-121%			
Naphthalene	16.9	2.00	4.00	ug/L	1	20.0	ND	85	61-128%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 96 %	Limits: 80)-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			90 %	80	-120 %		"					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232

Report ID: Project Manager: David Weatherby A3I0736 - 11 22 23 1556

SAMPLE PREPARATION INFORMATION

Redland

Diesel and/or Oil Hydrocarbons by NWTPH-Dx												
Prep: EPA 3510C (Fu	els/Acid Ext.) Matrix	Sample Initial/Final	Default Initial/Final	RL Prep Factor								
Batch: 2310247 A310736-01	Water	Method NWTPH-Dx	Sampled 09/05/23 11:00	Prepared 09/08/23 12:25	1010mL/5mL	1000mL/5mL	0.99					
	Gaso	line Range Hydroca	rbons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx							
Prep: EPA 5030C					Sample	Default	RL Prep					

Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0123							
A3I0736-01	Water	NWTPH-Gx (MS)	09/05/23 11:00	09/06/23 10:00	5mL/5mL	5mL/5mL	1.00
A3I0736-02	Water	NWTPH-Gx (MS)	09/05/23 11:00	09/06/23 10:00	5mL/5mL	5mL/5mL	1.00

	BTEX+N Compounds by EPA 8260D								
Prep: EPA 5030C					Sample	Default	RL Prep		
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor		
Batch: 23I0123									
A3I0736-01	Water	EPA 8260D	09/05/23 11:00	09/06/23 10:00	5mL/5mL	5mL/5mL	1.00		
A3I0736-02	Water	EPA 8260D	09/05/23 11:00	09/06/23 10:00	5mL/5mL	5mL/5mL	1.00		

	Conventional Microbiology Parameters									
Prep: Method Prep:	Aq				Sample	Default	RL Prep			
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor			
Batch: 23I0101										
A3I0736-01	Water	SM 9223 B	09/05/23 11:00	09/05/23 15:46	100mL/100mL	100mL/100mL	1.00			

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Page 11 of 17 Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310736 - 11 22 23 1556

QUALIFIER DEFINITIONS

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

Apex Laboratories

Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

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Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310736 - 11 22 23 1556

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 ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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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Apex Laboratories, LLC

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Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310736 - 11 22 23 1556

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0736 - 11 22 23 1556

Project/Project #: Red Cond		APEX LABS COOLER RECEIPT FORM
Project/Project #: Red and C O O O O O O Delivery Info: Date/time received: 9 23	Client: MFA	Element WO#: A3 L 0 736
Date/time received: 95/23 @ 12.19 By: ADW Delivered by: Apex_Client (ESS_FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other_Cooler Inspection	Project/Project #: <u>R</u> e	
Delivered by: Apex_Client \(\frac{\text{ESS}}{\text{ESS}} \) FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other_Cooler Inspection Date/time inspected: \(\frac{9/5/2}{\text{@ 17.20}} \) By: \(\frac{\text{MU.}}{\text{MU.}} \) Chain of Custody included? \(\text{Yes} \) No_Signed/dated by client? \(\text{Yes} \) No_Signed/dated by cl	Delivery Info:	
Delivered by: Apex_Client \(\frac{\text{ESS}}{\text{ESS}} \) FedEx_UPS_Radio_Morgan_SDS_Evergreen_Other_Cooler Inspection Date/time inspected: \(\frac{9/5/2}{\text{@ 17.20}} \) By: \(\frac{\text{MU.}}{\text{MU.}} \) Chain of Custody included? \(\text{Yes} \) No_Signed/dated by client? \(\text{Yes} \) No_Signed/dated by cl	Date/time received: 9	5/23 @12:19 By: AAW
Chain of Custody included? Yes X No Signed/dated by client? Yes X No Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7 Custody seals? (Y/N) X Received on ice? (Y/N) Y Received on ice? (Y/N) Received on ice? (Y/N) Received on ice? (Y/N) Y Received on ice? (Y/N) Received on ice? (Y		
Chain of Custody included? Yes X No Signed/dated by client? Yes X No Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7 Custody seals? (Y/N) X Received on ice? (Y/N) Y Received on ice? (Y/N) Received on ice? (Y/N) Received on ice? (Y/N) Y Received on ice? (Y/N) Received on ice? (Y	Cooler Inspection	Date/time inspected: 9/5/23 @ 17 . 20 By: AAC
Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #6 Cooler #7 Temperature (°C) O. 7 Custody seals? (Y/N) Received on ice? (Y/N) Itemp. blanks? (Y/N) Ice type: (Gel/Real/Other) Cooler out of temp? (Y/N) Possible reason why: Sample of the four of temperature samples? Yes No Could fout of temperature samples? Yes No Cout of temperature samples form initiated? Yes No Sample Inspection: Bottle labels/COCs agree? Yes \(\times \) No Comments: COC/container discrepancies form initiated? Yes \(\times \) No Comments: COC/container discrepancies form initiated? Yes \(\times \) No Comments: COC/container discrepancies form initiated? Yes \(\times \) No \(\times \) Comments: COC/container discrepancies form initiated? Yes \(\times \) No \(\times \) No \(\times \) Comments: COC/container discrepancies form initiated? Yes \(\times \) No \(\times \) No \(\times \) Comments: COC/container discrepancies form initiated? Yes \(\times \) No \(led? Yes X No
Temperature (°C) Custody seals? (Y/N) Received on ice? (Y/N) Temp. blanks? (Y/N) Ice type: (Gel/Real/Other) Condition (In/Out): Cooler out of temp? (Y/N) Possible reason why: Sampled (VCC) Green dots applied to out of temperature samples? Yes/No Cut of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: 9.573 @ 1240 By: All samples intact? Yes × No Comments: COC/container discrepancies form initiated? Yes No Scontainers/volumes received appropriate for analysis? Yes × No Comments: COC/container discrepancies form initiated? Yes No No Scontainers/volumes received appropriate for analysis? Yes × No	Signed/dated by client?	Yes No
Custody seals? (Y/N) Received on ice? (Y/N) Temp. blanks? (Y/N) Ice type: (Gel/Real/Other) Condition (In/Out): Cooler out of temp? (Y/N) Possible reason why: Sample of the four of temperature samples? Yes/No Sample Inspection: Date/time inspected: 9523@ 220 By: 53 All samples intact? Yes No Comments: Bottle labels/COCs agree? Yes No Comments: CoC/container discrepancies form initiated? Yes No Comments: CoV/ON vials have visible headspace? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA Comments: Cov/ON vials have visible headspace? Yes No NA PH appropriate? Yes No NA PH App		Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Received on ice? (Y/N) Temp. blanks? (Y/N) Idee type: (Gel/Real/Other) Condition (In/Out): Cooler out of temp? (Y)N) Possible reason why: Sample (VCQA) Green dots applied to out of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: 4_5_2_3 @ 1240 By: JJ All samples intact? Yes No Comments: Bottle labels/COCs agree? Yes No Comments: CoC/container discrepancies form initiated? Yes No Comments: Containers/volumes received appropriate for analysis? Yes No Comments: Co VOA vials have visible headspace? Yes No NA Comments 1/3 H5. Water samples: pH checked: Yes No NA pH appropriate? Yes No NA Comments: Additional information: Cooler Inspected by: Form Y-0003 R-00	Temperature (°C)	8.7
Temp. blanks? (Y/N) Idee type: (Gel/Real/Other) Condition (In/Out): Cooler out of temp? (Y/N) Possible reason why: Sample Page Green dots applied to out of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: 9-5-2-3 @ 1240 By: Df All samples intact? Yes No Comments: Bottle labels/COCs agree? Yes No Comments: COC/container discrepancies form initiated? Yes No Comments: Containers/volumes received appropriate for analysis? Yes No Comments: Do VOA vials have visible headspace? Yes No NA Comments /3 + 5	Custody seals? (Y/N)	<i>ω</i>
Condition (In/Out): Condition (In/Out): Cooler out of temp? (Y/N) Possible reason why: Sampled (PCPAL)	Received on ice? (Y/N)	<u> </u>
Condition (In/Out): Cooler out of temp? (YN) Possible reason why: S(W) (VCP) (Screen dots applied to out of temperature samples? Yes/No (Dut of temperature samples form initiated? Yes/No (Dut of temperature samples initiated? Yes/No (Dut of temperature samples initiated? Yes/No (Duto of temperature samples? Yes/No (Duto of temperature sampl	Temp. blanks? (Y/N)	<u>Y</u>
Cooler out of temp? (YN) Possible reason why: SUMDLY (YCON) Coreen dots applied to out of temperature samples? Yes No Out of temperature samples? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples form initiated? Yes No Out of temperature samples intact? Yes No Out of temperature samples form initiated? Yes No No Out of temperature samples form initiated? Yes No No Out of temperature samples form initiated? Yes No No Out of temperature samples? Yes No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No Out of temperature samples? Yes No No No No No Out of temperature samples? Yes No	Ice type: (Gel/Real/Othe	r) Real
Green dots applied to 6ut of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: 9.5.23 @ 1240 By: All samples intact? Yes No Comments: Bottle labels/COCs agree? Yes No Comments: COC/container discrepancies form initiated? Yes No Comments: COC/containers/volumes received appropriate for analysis? Yes No Comments: Do VOA vials have visible headspace? Yes No NA Comments/3 HS . Water samples: pH checked: Yes No NA pH appropriate? Yes No NA Comments: Additional information: 18 # 3380 Cooler Inspected by: Form Y-003 R-00	Condition (In/Out):	Cut
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/3 H \(\) . Water samples: pH checked: Yes No NA pH appropriate? Yes No NA Comments: Additional information:	All samples intact? Yes	
Containers/volumes received appropriate for analysis? Yes _ No _ Comments: Do VOA vials have visible headspace? Yes _ No _ NA Comments _ / 3 H \(\) . Water samples: pH checked: Yes \(\) No _ NA _ pH appropriate? Yes \(\) No _ NA _ Comments: Additional information: \(\) # 3380 Labeled by: Witness: \(\) Witness: \(\) Cooler Inspected by:	Bottle labels/COCs agree	
Containers/volumes received appropriate for analysis? Yes _ No _ Comments: Do VOA vials have visible headspace? Yes _ No _ NA Comments _ / 3 H \(\) . Water samples: pH checked: Yes \(\) No _ NA _ pH appropriate? Yes \(\) No _ NA _ Comments: Additional information: \(\) # 3380 Labeled by: Witness: \(\) Witness: \(\) Cooler Inspected by:	COC/container discrepar	acies form initiated? Yes No >
Water samples: pH checked: Yes XNo_NA_ pH appropriate? Yes XNo_NA_ Comments: Additional information: TB #3380 Labeled by: Witness: AW Cooler Inspected by:		
Water samples: pH checked: Yes × No NA pH appropriate? Yes × No NA Comments: Additional information: 18 ±3380 Labeled by: Witness: A Cooler Inspected by:	Do VOA vials have visit	ole headspace? Yes × No NA NA
Additional information: 1B #3380 Labeled by: Witness: AW Cooler Inspected by:	Comments 1/3 HS.	
Additional information: 1B #3380 Labeled by: Witness: AW Cooler Inspected by: Form Y-003 R-00	Water samples: pH checl	ced: Yes X No_NA_ pH appropriate? Yes X No_NA
Labeled by: Witness: Cooler Inspected by:	Comments:	
- 1 C	Additional information:	1B #3380
- 1 C		· .
- 1 C	Labeled by:	Witness: Cooler Inspected by:
		Form Y-003 R-00

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Philip Nerenberg, Lab Director

Philip Merenberg



Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3I0754 - Redland - 0106.37.001

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 A3I0754, which was received by the laboratory on 9/5/2023 at 12:19:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 8.7 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:3140 NE Broadway StreetProject NurPortland, OR 97232Project Mar

Project Number:0106.37.001Report ID:Project Manager:David WeatherbyA310754 - 11 22 23 1600

ANALYTICAL REPORT FOR SAMPLES

Redland

	SAMPLE INFORMATION								
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received					
VL-TP1-S-001	A3I0754-01	Soil	09/05/23 09:42	09/05/23 12:19					
VL-TP1-S-002	A3I0754-02	Soil	09/05/23 10:00	09/05/23 12:19					

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01)		•		Matrix: Soil		Batch:	2310266	
Diesel	138	27.6	55.1	mg/kg dry	1	09/11/23 20:05	NWTPH-Dx	F-18
Oil	ND	55.1	110	mg/kg dry	1	09/11/23 20:05	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 74 %	Limits: 50-150 %	5 1	09/11/23 20:05	NWTPH-Dx	
VL-TP1-S-002 (A3I0754-02)				Matrix: Soil		Batch:	2310266	
Diesel	ND	12.8	25.6	mg/kg dry	1	09/11/23 20:28	NWTPH-Dx	
Oil	ND	25.6	51.3	mg/kg dry	1	09/11/23 20:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 57 %	Limits: 50-150 %	5 I	09/11/23 20:28	NWTPH-Dx	

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3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons	(Benzene t	hrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01RE1)				Matrix: Soil		Batch	: 2310233	
Gasoline Range Organics	3010	39.4	78.8	mg/kg dry	500	09/08/23 14:33	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 107 %	Limits: 50-150 %	5 1	09/08/23 14:33	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	5 1	09/08/23 14:33	NWTPH-Gx (MS)	
VL-TP1-S-002 (A3I0754-02)				Matrix: Soil		Batch	: 2310187	
Gasoline Range Organics	ND	3.44	6.88	mg/kg dry	50	09/07/23 20:55	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 104 %	Limits: 50-150 %	5 1	09/07/23 20:55	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	1	09/07/23 20:55	NWTPH-Gx (MS)	

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Philip Nerenberg, Lab Director



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3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01RE1)				Matrix: Soil		Batch:	2310233	
Benzene	ND	78.8	158	ug/kg dry	500	09/08/23 14:33	5035A/8260D	
Toluene	ND	394	788	ug/kg dry	500	09/08/23 14:33	5035A/8260D	
Ethylbenzene	331	197	394	ug/kg dry	500	09/08/23 14:33	5035A/8260D	J
Xylenes, total	ND	591	1180	ug/kg dry	500	09/08/23 14:33	5035A/8260D	
Naphthalene	1210	788	1580	ug/kg dry	500	09/08/23 14:33	5035A/8260D	J
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 104 %	Limits: 80-120 %	5 1	09/08/23 14:33	5035A/8260D	
Toluene-d8 (Surr)			103 %	80-120 %	<i>I</i>	09/08/23 14:33	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	09/08/23 14:33	5035A/8260D	
VL-TP1-S-002 (A3I0754-02)				Matrix: Soil		Batch:	2310187	
Benzene	ND	6.88	13.8	ug/kg dry	50	09/07/23 20:55	5035A/8260D	
Toluene	ND	34.4	68.8	ug/kg dry	50	09/07/23 20:55	5035A/8260D	
Ethylbenzene	ND	17.2	34.4	ug/kg dry	50	09/07/23 20:55	5035A/8260D	
Xylenes, total	ND	51.6	103	ug/kg dry	50	09/07/23 20:55	5035A/8260D	
Naphthalene	ND	68.8	138	ug/kg dry	50	09/07/23 20:55	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 100 %	Limits: 80-120 %	<i>1</i>	09/07/23 20:55	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	5 1	09/07/23 20:55	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	<i>I</i>	09/07/23 20:55	5035A/8260D	

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Philip Nerenberg, Lab Director



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

		TCLP Meta	als by EPA 60	20B (ICPMS	S)			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01)				Matrix: So	oil			
Batch: 23I0430 Lead	ND	0.0250	0.0500	mg/L	5	09/15/23 09:33	1311/6020B	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01)				Matrix: So	oil	Batch:	2310124	
% Solids	69.8	1.00	1.00	%	1	09/07/23 07:14	EPA 8000D	
VL-TP1-S-002 (A3I0754-02)				Matrix: So	oil	Batch:	2310124	
% Solids	73.4	1.00	1.00	%	1	09/07/23 07:14	EPA 8000D	

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Philip Merenberg

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3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

ANALYTICAL SAMPLE RESULTS

		TCLP E	xtraction by	EPA 1311				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-TP1-S-001 (A3I0754-01)				Matrix: So	oil	Batch:	2310366	
TCLP Extraction	PREP			N/A	1	09/13/23 15:00	EPA 1311	

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Philip Nerenberg, Lab Director

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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232
Project

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	or Oil Hyd	rocarbor	s by NW	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0266 - EPA 3546 (Fu	uels)						Soi	il				
Blank (23I0266-BLK1)			Prepared	1: 09/11/23	04:37 Ana	lyzed: 09/11	/23 08:33					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	et 1							
Oil	ND	20.0	40.0	mg/kg w	et 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 80 %	Limits: 50	-150 %	Dili	ution: 1x					
LCS (23I0266-BS1)			Prepared	d: 09/11/23	04:37 Ana	lyzed: 09/11	/23 08:54					
NWTPH-Dx												
Diesel	113	10.0	20.0	mg/kg w	et 1	125		90	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 91 %	Limits: 50	-150 %	Dili	ution: 1x					
Duplicate (23I0266-DUP1)			Prepared	1: 09/11/23	04:37 Ana	lyzed: 09/11	/23 09:34					
QC Source Sample: Non-SDG (A	310920-01)											
Diesel	ND	10.5	20.9	mg/kg d	y 1		ND				30%	
Oil	ND	20.9	41.8	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 68 %	Limits: 50	-150 %	Dili	ution: 1x					-
Duplicate (23I0266-DUP3)			Prepared	1: 09/11/23	10:06 Ana	lyzed: 09/12	2/23 08:18					
OC Source Sample: Non-SDG (A	310919-07RE	1)										
Diesel	28300	560	1120	mg/kg d	ry 50		28600			1	30%	
Oil	ND	1120	2240	mg/kg d	ry 50		ND				30%	
Surr: o-Terphenyl (Surr)		Re	ecovery: %	Limits: 50	-150 %	Dila	ution: 50x					S-01

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Philip Nerenberg, Lab Director

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Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	ydrocarbo	ons (Ben	zene thro	ugh Naphi	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0187 - EPA 5035A							Soi	il				
Blank (23I0187-BLK1)			Prepared	d: 09/07/23	10:06 Ana	lyzed: 09/07/	/23 14:04					
NWTPH-Gx (MS) Gasoline Range Organics	ND	2.50	5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			109 %	50	0-150 %		"					
LCS (23I0187-BS2)			Prepared	d: 09/07/23	10:06 Ana	lyzed: 09/07/	/23 13:34					
NWTPH-Gx (MS)												
Gasoline Range Organics	28.2	2.50	5.00	mg/kg v	vet 50	25.0		113	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 5	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			107 %	5(0-150 %		"					
Duplicate (23I0187-DUP1)			Prepared	d: 09/05/23	11:30 Anal	lyzed: 09/07/	/23 19:13					
QC Source Sample: Non-SDG (A3	310772-01)											
Gasoline Range Organics	849	7.35	14.7	mg/kg d	lry 100		902			6	30%	
							_					
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 107 %	Limits: 5	0-150 %	Dili	ıtion: 1x					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:3140 NE Broadway StreetProject NurPortland, OR 97232Project Mar

Project Number: **0106.37.001**Project Manager: **David Weatherby**

Redland

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	lydrocarbo	ons (Benz	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0233 - EPA 5035A							Soi	il				
Blank (23I0233-BLK1)			Prepared	1: 09/08/23	10:18 Ana	yzed: 09/08	/23 13:42					
NWTPH-Gx (MS) Gasoline Range Organics	ND	2.50	5.00	mg/kg w	vet 50							
Surr: 4-Bromofluorobenzene (Sur)			very: 103 %	Limits: 50		Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			102 %	50	0-150 %		"					
LCS (23I0233-BS2)			Prepared	d: 09/08/23	10:18 Ana	lyzed: 09/08	/23 13:13					
NWTPH-Gx (MS)												
Gasoline Range Organics	27.8	2.50	5.00	mg/kg w	vet 50	25.0		111	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 105 %	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			104 %	50	0-150 %		"					
Duplicate (23I0233-DUP1)			Prepared	1: 09/06/23	15:27 Ana	yzed: 09/08	/23 18:23					V-
QC Source Sample: Non-SDG (A3	310793-01)											
Gasoline Range Organics	ND	5.38	10.8	mg/kg d	ry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 50	0-150 %	Dilı	ution: 1x					

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

Batch 23l0187 - EPA 5035A Blank (23l0187-BLK1) 5035A/8260D Benzene Toluene Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)	Result	Detection Limit	Reporting Limit	Units		Spike	Source		% REC		RPD	
Blank (2310187-BLK1) 5035A/8260D Benzene Toluene Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)					Dilution	Amount	Result	% REC	Limits	RPD	Limit	Notes
5035A/8260D Benzene Toluene Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)							Soi	il				
Benzene Toluene Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)			Prepared	1: 09/07/23 1	0:06 Anal	yzed: 09/07/	23 14:04					
Toluene Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)												
Ethylbenzene Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr)	ND	5.00	10.0	ug/kg we	t 50							
Xylenes, total Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) LCS (2310187-BS1)	ND	25.0	50.0	ug/kg we	t 50							
Naphthalene Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) LCS (2310187-BS1)	ND	12.5	25.0	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr) Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) LCS (2310187-BS1)	ND	37.5	75.0	ug/kg we	t 50							
Toluene-d8 (Surr) 4-Bromofluorobenzene (Surr) LCS (2310187-BS1)	ND	50.0	100	ug/kg we	t 50							
4-Bromofluorobenzene (Surr) LCS (23I0187-BS1)		Recov	very: 103 %	Limits: 80-	120 %	Dilı	tion: 1x					
LCS (2310187-BS1)			103 %	80-	120 %		"					
			96 %	79-	120 %		"					
			Prepared	d: 09/07/23 1	0:06 Anal	yzed: 09/07/	23 13:09					
5035A/8260D												
Benzene	1050	5.00	10.0	ug/kg we	t 50	1000		105	80-120%			
Toluene	1050	25.0	50.0	ug/kg we	t 50	1000		105	80-120%			
Ethylbenzene	1010	12.5	25.0	ug/kg we	t 50	1000		101	80-120%			
Xylenes, total	2980	37.5	75.0	ug/kg we	t 50	3000		99	80-120%			
Naphthalene	854	50.0	100	ug/kg we	t 50	1000		85	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 101 %	Limits: 80-	120 %	Dilı	tion: 1x					_
Toluene-d8 (Surr)			103 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			92 %	79-	120 %		"					
Duplicate (23I0187-DUP1)			Prepared	d: 09/05/23 1	1:30 Anal	yzed: 09/07/	23 19:13					
QC Source Sample: Non-SDG (A310772	72-01)											
Benzene	176	14.7	29.4	ug/kg dry	7 100		194			10	30%	
Toluene	ND	73.5	147	ug/kg dry	100		ND				30%	
Ethylbenzene	163	36.7	73.5	ug/kg dry			182			11	30%	
Xylenes, total	ND	110	220	ug/kg dry	7 100		ND				30%	
Naphthalene	ND	1470	1470	ug/kg dry			ND				30%	R-
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 101 %	Limits: 80-	120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			100 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			0.00	70	120.0/		,,					
Matrix Spike (23I0187-MS1)			96 %		120 %							

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D Detection Reporting Spike Source % REC **RPD** Analyte Result Ĺimit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 23I0187 - EPA 5035A Soil Matrix Spike (23I0187-MS1) Prepared: 09/07/23 09:39 Analyzed: 09/07/23 16:40 V-15 QC Source Sample: Non-SDG (A3I0824-03) 5035A/8260D 7.79 Benzene 1670 15.6 ug/kg dry 50 1560 ND 107 77-121% Toluene 1630 39.0 77.9 ug/kg dry 50 1560 ND 105 77-121% Ethylbenzene 1610 19.5 39.0 76-122% ug/kg dry 50 1560 ND 104 Xylenes, total 4770 58.4 117 ug/kg dry 50 4670 ND 102 78-124% Naphthalene 1430 77.9 156 1560 ND 92 62-129% ug/kg dry 50 Surr: 1,4-Difluorobenzene (Surr) 102 % Limits: 80-120 % Recovery: Dilution: 1x Toluene-d8 (Surr) 100 % 80-120 % 4-Bromofluorobenzene (Surr) 97 % 79-120 %

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0233 - EPA 5035A							So	il				
Blank (23I0233-BLK1)			Prepared	d: 09/08/23 1	0:18 Anal	yzed: 09/08	/23 13:42					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	t 50							
Toluene	ND	25.0	50.0	ug/kg we	t 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	t 50							
Naphthalene	ND	50.0	100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 106 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	79-	120 %		"					
LCS (23I0233-BS1)			Prepared	d: 09/08/23 1	0:18 Anal	yzed: 09/08	/23 12:22					
5035A/8260D												
Benzene	1020	5.00	10.0	ug/kg we	t 50	1000		102	80-120%			
Toluene	1030	25.0	50.0	ug/kg we	t 50	1000		103	80-120%			
Ethylbenzene	1010	12.5	25.0	ug/kg we	t 50	1000		101	80-120%			
Xylenes, total	3040	37.5	75.0	ug/kg we	t 50	3000		101	80-120%			
Naphthalene	909	50.0	100	ug/kg we	t 50	1000		91	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 101 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			97 %	79-	120 %		"					
Duplicate (23I0233-DUP1)			Prepared	d: 09/06/23 1	5:27 Anal	yzed: 09/08	/23 18:23					V-
QC Source Sample: Non-SDG (A3	10793-01)											
Benzene	ND	10.8	21.5	ug/kg dr	y 50		ND				30%	
Toluene	ND	53.8	108	ug/kg dr	y 50		ND				30%	
Ethylbenzene	ND	26.9	53.8	ug/kg dr	y 50		ND				30%	
Xylenes, total	ND	80.7	161	ug/kg dr	y 50		ND				30%	
Naphthalene	ND	108	215	ug/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-	-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			96 %	79-	120 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0233 - EPA 5035A							So	il				
Matrix Spike (23I0233-MS1)			Prepared	1: 09/05/23 1	7:50 Ana	lyzed: 09/08	/23 20:31					
QC Source Sample: Non-SDG (A3	10802-11)											
5035A/8260D												
Benzene	1300	5.48	11.0	ug/kg dry	50	1100	ND	119	77-121%			
Toluene	1260	27.4	54.8	ug/kg dry	50	1100	ND	115	77-121%			
Ethylbenzene	1220	13.7	27.4	ug/kg dry	50	1100	ND	111	76-122%			
Xylenes, total	3580	41.1	82.2	ug/kg dry	50	3290	ND	109	78-124%			
Naphthalene	967	54.8	110	ug/kg dry	50	1100	ND	88	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 102 %	Limits: 80-	120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			90 %	79-	120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

			TCLP N	letals by	EPA 602	OB (ICPM	S)					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0430 - EPA 1311/3015	5A						Sol	id				
Blank (23I0430-BLK1)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 09:23					
1311/6020B												
Lead	ND	0.0250	0.0500	mg/L	10							TCL
LCS (23I0430-BS1)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 09:28					
<u>1311/6020B</u>												
Lead	5.50	0.0250	0.0500	mg/L	10	5.00		110	80-120%			TCLI
Duplicate (23I0430-DUP1)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 09:38					
QC Source Sample: VL-TP1-S-001	(A310754-	<u>-01)</u>										
1311/6020B												
Lead	ND	0.0250	0.0500	mg/L	5		ND				20%	
Matrix Spike (23I0430-MS1)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 09:43					
OC Source Sample: VL-TP1-S-001	(A3I0754-	·01)										
1311/6020B												
Lead	11.1	0.0500	0.100	mg/L	10	10.0	ND	111	50-150%			
Matrix Spike (23I0430-MS2)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 10:04					
QC Source Sample: Non-SDG (A3	10912-01)											
1311/6020B												
Lead	5.49	0.0250	0.0500	mg/L	10	5.00	ND	110	50-150%			CONT
Matrix Spike (23I0430-MS3)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 10:14					
QC Source Sample: Non-SDG (A3	<u>10913-01)</u>											
<u>1311/6020B</u>												
Lead	5.42	0.0250	0.0500	mg/L	10	5.00	ND	108	50-150%			
Matrix Spike (23I0430-MS4)			Prepared	: 09/14/23	11:02 Anal	yzed: 09/15	/23 10:24					
QC Source Sample: Non-SDG (A3	I1017-01)											
<u>1311/6020B</u>												
Lead	5.54	0.0250	0.0500	mg/L	10	5.00	ND	111	50-150%			CON

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0124 - Total Solids (Dry	/ Weigh	t) - 2022					Soi					
Duplicate (23I0124-DUP1)			Prepared	: 09/06/23	09:14 Anal	yzed: 09/07/	/23 07:14					
QC Source Sample: Non-SDG (A310' % Solids	752-01) 88.4	1.00	1.00	%	1		88.3			0.1	10%	
Duplicate (23I0124-DUP2)			Prepared	: 09/06/23	09:14 Anal	yzed: 09/07/	/23 07:14					
QC Source Sample: Non-SDG (A310' % Solids	752-02) 88.0	1.00	1.00	%	1		88.1			0.09	10%	
Duplicate (23I0124-DUP3)			Prepared	: 09/06/23	09:14 Anal	yzed: 09/07/	/23 07:14					
OC Source Sample: Non-SDG (A310' % Solids	752-03) 87.0	1.00	1.00	%	1		87.5			0.6	10%	
Duplicate (23I0124-DUP4)			Prepared	: 09/06/23	09:14 Anal	yzed: 09/07/	/23 07:14					
OC Source Sample: Non-SDG (A310' % Solids	752-04) 92.5	1.00	1.00	%	1		92.6			0.1	10%	
Duplicate (23I0124-DUP5)			Prepared	: 09/06/23	09:14 Anal	yzed: 09/07/	/23 07:14					
QC Source Sample: Non-SDG (A310' % Solids	752-05) 88.1	1.00	1.00	%	1		85.6			3	10%	
Duplicate (23I0124-DUP6)			Prepared	: 09/06/23	20:00 Anal	yzed: 09/07/	/23 07:14					
OC Source Sample: Non-SDG (A310' % Solids	792-01) 76.4	1.00	1.00	%	1		76.5			0.2	10%	
Duplicate (23I0124-DUP7)			Prepared	: 09/06/23	20:00 Anal	yzed: 09/07/	/23 07:14					
OC Source Sample: Non-SDG (A310) % Solids	812-01) 77.1	1.00	1.00	%	1		79.5			3	10%	
Duplicate (23I0124-DUP8)			Prepared	: 09/06/23	20:00 Anal	yzed: 09/07/	/23 07:14					
OC Source Sample: Non-SDG (A310) % Solids	817-01) 90.8	1.00	1.00	%	1		90.6			0.2	10%	

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Philip Neimberg



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0754 - 11 22 23 1600

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits		RPD Limit	Notes
Batch 23I0124 - Total Solids (Dry Weigh	t) - 2022					Soil					
Duplicate (23I0124-DUP9)			Prepared	: 09/06/23	20:00 Ana	yzed: 09/07	/23 07:14					
QC Source Sample: Non-SDG (A	310822-01)											
% Solids	64.5	1.00	1.00	%	1		48.7			28	10%	Q-17

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

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: Redland 3140 NE Broadway Street Project Number: 0106.37.001 Report ID: Portland, OR 97232 Project Manager: David Weatherby A3I0754 - 11 22 23 1600

SAMPLE PREPARATION INFORMATION

		Diesel and	l/or Oil Hydrocarbor	is by NWTPH-Dx			
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0266				-			
A3I0754-01	Soil	NWTPH-Dx	09/05/23 09:42	09/11/23 10:06	5.2g/5mL	10g/5mL	1.92
A3I0754-02	Soil	NWTPH-Dx	09/05/23 10:00	09/11/23 10:06	10.63g/5mL	10g/5mL	0.94
	Gaso	oline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) by	y NWTPH-Gx		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0187			*	•			
A3I0754-02	Soil	NWTPH-Gx (MS)	09/05/23 10:00	09/05/23 10:00	6.72g/5mL	5g/5mL	0.74
Batch: 23I0233							
A3I0754-01RE1	Soil	NWTPH-Gx (MS)	09/05/23 09:42	09/05/23 09:42	6.27g/5mL	5g/5mL	0.80
		BTEX	(+N Compounds by	EPA 8260D			
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0187							
A3I0754-02	Soil	5035A/8260D	09/05/23 10:00	09/05/23 10:00	6.72g/5mL	5g/5mL	0.74
Batch: 23I0233							
A3I0754-01RE1	Soil	5035A/8260D	09/05/23 09:42	09/05/23 09:42	6.27g/5mL	5g/5mL	0.80
		TCLP	Metals by EPA 602	OB (ICPMS)			
Prep: EPA 1311/3015	Δ		,	,	Sample	Default	RL Prep
Lab Number	Matrix	Method	C1- 1	D 1	Initial/Final	Initial/Final	Factor
Batch: 2310430	IVIAUTX	Method	Sampled	Prepared	111111111111111111111111111111111111111	111111111111111111111111111111111111111	
A3I0754-01	Soil	1311/6020B	09/05/23 09:42	09/14/23 11:02	5mL/50mL	10mL/50mL	2.00
			Percent Dry We	ght			
Prep: Total Solids (Dr	y Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0124							
A3I0754-01	Soil	EPA 8000D	09/05/23 09:42	09/06/23 09:14			NA
A3I0754-02	Soil	EPA 8000D	09/05/23 10:00	09/06/23 09:14			NA

custody document(s) and updated by any subsequent written communications. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Philip Merenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

SAMPLE PREPARATION INFORMATION

			Percent Dry We	ight			
			TCLP Extraction by E	PA 1311			
Prep: EPA 1311 (TC	CLP) Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 2310366 A310754-01	Soil	EPA 1311	09/05/23 09:42	09/13/23 15:00	100g/2000.3g	100g/2000g	NA

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 20 of 26 $\,$



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310754 - 11 22 23 1600

QUALIFIER DEFINITIONS

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

Apex Laboratories

V-15

sampling.

CONT	The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
F-18	Result for Diesel (Diesel Range Organics, C12-C25) is due to overlap from Gasoline or a Gasoline Range product.
J	Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
Q-17	RPD between original and duplicate sample, or spike duplicates, is outside of established control limits.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-01	Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
TCLP	This batch QC sample was prepared with TCLP or SPLP fluid from preparation batch 23I0366.

Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310754 - 11 22 23 1600

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).

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310754 - 11 22 23 1600

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 23 of 26



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310754 - 11 22 23 1600

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

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Philip Menberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project: Redland

Project Number: **0106.37.001**Project Manager: **David Weatherby**

Report ID: A3I0754 - 11 22 23 1600

Frezen Archive Y-002 R-00 Hold Sample 0/06.37.001 Form H: hold for vocs, 7AHS, PCBS Date: RECEIVED B TCLP Metals (8) Al, Sb, As, Bs, Be, Cd, Cs, Cr, Co, Cu, Fe, Pb, Bg, Mg, Mn, Mo, Ni, K, Se, Ag, Ns, Tl, V, Zn TOTAL DISS, TCLI Date Priority Metals (13) Responds RCRA Metals (8) 8081 Pesticides CHAIN OF CUSTODY エエ 8087 PCBs 8270 Semi-Vols Full List 8HA9 MIS 0728 T 8700 AOCs Enll Fist 8760 Halo VOCs 8768 RBDM VOCs D. WEATHER YOU 8560 BTEX NATPH-Gx + BIEX AWTPH-Dx 3 Day MWTPH-HCID # OF CONTAINERS Standard Turn Around Time (TAT) = 10 Business 2 Day 700 SW Sandburg St., Tigard, OR 97223 Ph.: 503-718-2323 SAMPLES ARE HELD FOR 30 DAYS XIXTAM S TIME 5 Day 1 Day 2506 DATE TAT Requested (circle) -TP1-5-002 **IPEX LABS** -181-5-001 State OR

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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.

Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0754 - 11 22 23 1600

Element WO#: A3 [0.35 4] Project/Project #: Red Cand	Client: JUFF	
Delivery Info: Date/time received: 95/23 @ 219 By: APL Delivered by: Apex_Client_XESS_FedEx_UPS_Radio_MorganSDS_Evergreen_Other_Cooler_Inspection_Date/time inspected: 9/5/23 @ 12.20 By: APL Chain of Custody included? YesNo	and the second s	
Date/time received: 95/23 @ 12.19 By: AMU Delivered by: Apex_Client YESS_FedEx_UPS_Radio Morgan_SDS_Evergreen_Other_ Cooler Inspection Date/time inspected: 95/23 @ 12.20 By: AMU Chain of Custody included? Yes	Project/Project #: <u>Redla</u>	nd 0106.37.001
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Chain of Custody included? Yes X No Signed/dated by client? Yes X No Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #7 Temperature (°C) S T Custody seals? (Y/N) X Custody seals? (Y/N) Y Custody seals? (Y/N) Y Cooler #6 Cooler #7 Tempe blanks? (Y/N) Y Cooler #6 Cooler #7 Condition (In/Out): Cooler #6 Cooler #7 Cooler out of temp? (Y/N) Possible reason why: Sample (Cooler 10 Cooler 10 Cooler		
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Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7 Temperature (°C) Custody seals? (Y/N) Received on ice? (Y/N) Y Temp. blanks? (Y/N) Cooler out of temp? (Y/N) Possible reason why: Sample (Papel) Green dots applied to out of temperature samples? Yes/No Sample Inspection: Date/time inspected: 1/5/25 @ (5:5] By: Amazel All samples intact? Yes × No Comments: COC/container discrepancies form initiated? Yes No × Containers/volumes received appropriate for analysis? Yes × No Comments: Co VOA vials have visible headspace? Yes No NA Y Comments Water samples: pH checked: Yes No NA P H appropriate? Yes No NA X Comments: Additional information:		Yes No
Temperature (°C) Custody seals? (Y/N) Received on ice? (Y/N) Femp. blanks? (Y/N) Goet type: (Gel/Real/Other) Condition (In/Out): Cooler out of temp? (Y/N) Possible reason why: Sawnold (Park V) Green dots applied to out of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Bate/time inspected: 91923 @ (5:5] By: And All samples intact? Yes Yes No Comments: COC/container discrepancies form initiated? Yes No Yes/No Containers/volumes received appropriate for analysis? Yes No Comments: Do VOA vials have visible headspace? Yes No NA Yes/Comments Water samples: pH checked: Yes No NA Yes/Comments: Additional information:	Signed/dated by client?	Yes No
Temp. blanks? (Y/N) Gree type: (Gel/Real/Other) Green dots applied to out of temperature samples? Yes/No Condition (In/Out): Cooler out of temp? (Y)N) Possible reason why: Sample of temperature samples? Yes/No Cout of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: \$\frac{y_1}{y_2} \frac{1}{3} \text{ @ (5:5)} \text{ By: }\frac{y_2}{y_2} \text{ Additional information:} By: \$\frac{y_2}{y_2} \text{ Additional information:} Cooling to the type of temperature samples? Yes/No Condition (In/Out): Cooling to the type of temperature samples? Yes/No Comments: By: \$\frac{y_2}{y_2} \text{ By: }\frac{y_2}{y_2} \text{ Additional information:} Cooling to the type of temperature samples? Yes/No Comments: Cooling to the type of temperature samples? Yes/No Comments: Cooling type of temperature samples? Yes/No No No No No No No No No No	. ,	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
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Condition (In/Out): Cooler out of temp? (YN) Possible reason why: S(W) (Cooler out) Green dots applied to out of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: 9525 @ 15:5 By: And All samples intact? Yes Y No Comments: Bottle labels/COCs agree? Yes Y No Comments: COC/container discrepancies form initiated? Yes No Comments: Containers/volumes received appropriate for analysis? Yes No Comments: Do VOA vials have visible headspace? Yes No NA Y Comments Water samples: pH checked: Yes No NA PH appropriate? Yes No NA Y Comments: Additional information:		
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Green dots applied to out of temperature samples? Yes/No Out of temperature samples form initiated? Yes/No Sample Inspection: Date/time inspected: \$\frac{15}{25}\$ @ \$\frac{15}{25}\$ By: \$\frac{15}{25}\$ All samples intact? Yes \(\sigma \) No Comments: Bottle labels/COCs agree? Yes \(\sigma \) No Comments: COC/container discrepancies form initiated? Yes No Comments: Containers/volumes received appropriate for analysis? Yes \(\sigma \) No Comments: Do VOA vials have visible headspace? Yes No NA \(\sigma \) Comments Water samples: pH checked: Yes No NA \(\sigma \) pH appropriate? Yes No NA \(\sigma \) Comments: Additional information:	, ,	Cut
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Comments		
Additional information:		eadspace? Yes No NA
Additional information:	Water samples: pH checked:	YesNoNA \(\subseteq \text{pH appropriate? YesNoNA } \(\subseteq \)
	Comments:	
abeled by: O Cooler Inspected by:	Additional information:	
abeled by: Cooler Inspected by:		
	abeled by:	Witness: Cooler Inspected by:

Apex Laboratories

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Philip Nevenberg



Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3I0917 - Redland - 0106.37.001

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 A3I0917, which was received by the laboratory on 9/8/2023 at 5:52:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 14.6 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RS-B1-S-8.5	A3I0917-01	Soil	09/08/23 09:50	09/08/23 17:52
RS-B2-S-8.5	A3I0917-02	Soil	09/08/23 10:25	09/08/23 17:52
RS-B3-S-12	A3I0917-03	Soil	09/08/23 11:45	09/08/23 17:52
RS-B4-S-8	A3I0917-04	Soil	09/08/23 13:28	09/08/23 17:52
RS-B5-S-6	A3I0917-05	Soil	09/08/23 13:58	09/08/23 17:52
RS-B6-S-8	A310917-06	Soil	09/08/23 14:35	09/08/23 17:52
VL-B8-S-11.5	A3I0917-07	Soil	09/08/23 16:17	09/08/23 17:52
VL-B9-S-7	A3I0917-08	Soil	09/08/23 16:39	09/08/23 17:52

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Philip Nerenberg, Lab Director

Philip Marenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
RS-B1-S-8.5 (A3I0917-01)				Matrix: Soil		Batch:	2310357	
Diesel	18.0	13.8	27.6	mg/kg dry	1	09/13/23 23:10	NWTPH-Dx	J
Oil	ND	27.6	55.2	mg/kg dry	1	09/13/23 23:10	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 61 %	Limits: 50-150 %	6 1	09/13/23 23:10	NWTPH-Dx	
RS-B2-S-8.5 (A3I0917-02)				Matrix: Soil		Batch:	2310357	
Diesel	36.3	11.5	23.1	mg/kg dry	1	09/13/23 23:30	NWTPH-Dx	F-20
Oil	113	23.1	46.2	mg/kg dry	1	09/13/23 23:30	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 80 %	Limits: 50-150 %	6 I	09/13/23 23:30	NWTPH-Dx	
RS-B3-S-12 (A3I0917-03)				Matrix: Soil		Batch:	2310357	
Diesel	ND	13.1	26.1	mg/kg dry	1	09/14/23 00:10	NWTPH-Dx	
Oil	ND	26.1	52.3	mg/kg dry	1	09/14/23 00:10	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 57 %	Limits: 50-150 %	6 I	09/14/23 00:10	NWTPH-Dx	
RS-B4-S-8 (A3I0917-04)				Matrix: Soil		Batch:	2310357	
Diesel	ND	12.2	24.4	mg/kg dry	1	09/14/23 00:31	NWTPH-Dx	
Oil	ND	24.4	48.8	mg/kg dry	1	09/14/23 00:31	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 74 %	Limits: 50-150 %	6 I	09/14/23 00:31	NWTPH-Dx	
RS-B5-S-6 (A3I0917-05)				Matrix: Soil		Batch:	2310357	
Diesel	12.2	12.0	24.1	mg/kg dry	1	09/14/23 00:51	NWTPH-Dx	J
Oil	67.3	24.1	48.2	mg/kg dry	1	09/14/23 00:51	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 77 %	Limits: 50-150 %	6 1	09/14/23 00:51	NWTPH-Dx	
RS-B6-S-8 (A3I0917-06)				Matrix: Soil		Batch:	2310357	
Diesel	ND	13.5	27.0	mg/kg dry	1	09/14/23 01:31	NWTPH-Dx	
Oil	ND	27.0	54.1	mg/kg dry	1	09/14/23 01:31	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 70 %	Limits: 50-150 %	6 1	09/14/23 01:31	NWTPH-Dx	
/L-B8-S-11.5 (A3I0917-07)				Matrix: Soil		Batch:	2310357	
Diesel	ND	13.9	27.8	mg/kg dry	1	09/14/23 01:52	NWTPH-Dx	
Oil	ND	27.8	55.6	mg/kg dry	1	09/14/23 01:52	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 61 %	Limits: 50-150 %	6 I	09/14/23 01:52	NWTPH-Dx	

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Philip Nerenberg, Lab Director

Philip Neimberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-B9-S-7 (A3I0917-08)				Matrix: Soil		Batch:	2310357	
Diesel	ND	11.8	23.5	mg/kg dry	1	09/14/23 02:12	NWTPH-Dx	
Oil	ND	23.5	47.1	mg/kg dry	1	09/14/23 02:12	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 87 %	Limits: 50-150 %	5 I	09/14/23 02:12	NWTPH-Dx	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

Gasol	ine Kange Hy	urocarbons (I	senzene tr	hrough Naphth	aiene) by	NWIPH-GX		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Note
RS-B1-S-8.5 (A3I0917-01RE1)				Matrix: Soil		Batch	: 2310350	
Gasoline Range Organics	5.35	3.67	7.34	mg/kg dry	50	09/12/23 19:24	NWTPH-Gx (MS)	J
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 105 %	Limits: 50-150 %	6 1	09/12/23 19:24	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	6 I	09/12/23 19:24	NWTPH-Gx (MS)	
RS-B2-S-8.5 (A3I0917-02)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	2.77	5.55	mg/kg dry	50	09/11/23 19:12	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 99 %	Limits: 50-150 %	6 I	09/11/23 19:12	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			108 %	50-150 %	6 I	09/11/23 19:12	NWTPH-Gx (MS)	
RS-B3-S-12 (A3I0917-03)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	3.56	7.13	mg/kg dry	50	09/11/23 19:38	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 96%	Limits: 50-150 %	6 I	09/11/23 19:38	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			108 %	50-150 %	6 1	09/11/23 19:38	NWTPH-Gx (MS)	
RS-B4-S-8 (A3I0917-04)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	2.74	5.48	mg/kg dry	50	09/11/23 20:03	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 98 %	Limits: 50-150 %	6 1	09/11/23 20:03	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	6 1	09/11/23 20:03	NWTPH-Gx (MS)	
RS-B5-S-6 (A3I0917-05)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	2.73	5.45	mg/kg dry	50	09/11/23 20:29	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 101 %	Limits: 50-150 %	6 I	09/11/23 20:29	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	6 I	09/11/23 20:29	NWTPH-Gx (MS)	
RS-B6-S-8 (A3I0917-06)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	3.47	6.94	mg/kg dry	50	09/11/23 20:54	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 101 %	Limits: 50-150 %	6 I	09/11/23 20:54	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	6 1	09/11/23 20:54	NWTPH-Gx (MS)	
VL-B8-S-11.5 (A3I0917-07)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	3.52	7.04	mg/kg dry	50	09/11/23 21:20	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ry: 98 %	Limits: 50-150 %	6 I	09/11/23 21:20	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	6 I	09/11/23 21:20	NWTPH-Gx (MS)	

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

Gasol	line Range Hy	drocarbons	(Benzene th	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-B9-S-7 (A3I0917-08)				Matrix: Soil		Batch	: 2310283	
Gasoline Range Organics	ND	2.49	4.97	mg/kg dry	50	09/11/23 21:46	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 97 % 110 %	Limits: 50-150 % 50-150 %	-	09/11/23 21:46 09/11/23 21:46	NWTPH-Gx (MS) NWTPH-Gx (MS)	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-B1-S-8.5 (A3I0917-01)				Matrix: Soil		Batch:		
Benzene	ND	7.34	14.7	ug/kg dry	50	09/11/23 18:21	5035A/8260D	
Toluene	ND	36.7	73.4	ug/kg dry	50	09/11/23 18:21	5035A/8260D	
Ethylbenzene	ND	18.3	36.7	ug/kg dry	50	09/11/23 18:21	5035A/8260D	
Xylenes, total	ND	55.0	110	ug/kg dry	50	09/11/23 18:21	5035A/8260D	
Naphthalene	ND	73.4	147	ug/kg dry	50	09/11/23 18:21	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 100 %	Limits: 80-120 %	1	09/11/23 18:21	5035A/8260D	
Toluene-d8 (Surr)			100 %		1	09/11/23 18:21	5035A/8260D	
4-Bromofluorobenzene (Surr)			96 %	79-120 %	1	09/11/23 18:21	5035A/8260D	
RS-B2-S-8.5 (A3I0917-02)		Matrix: Soil Ba		Batch:	2310283			
Benzene	ND	5.55	11.1	ug/kg dry	50	09/11/23 19:12	5035A/8260D	
Toluene	ND	27.7	55.5	ug/kg dry	50	09/11/23 19:12	5035A/8260D	
Ethylbenzene	ND	13.9	27.7	ug/kg dry	50	09/11/23 19:12	5035A/8260D	
Xylenes, total	ND	41.6	83.2	ug/kg dry	50	09/11/23 19:12	5035A/8260D	
Naphthalene	ND	55.5	111	ug/kg dry	50	09/11/23 19:12	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 101 %	Limits: 80-120 %	1	09/11/23 19:12	5035A/8260D	
Toluene-d8 (Surr)			102 %	80-120 %	1	09/11/23 19:12	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	09/11/23 19:12	5035A/8260D	
RS-B3-S-12 (A3I0917-03)				Matrix: Soil		Batch:		
Benzene	ND	7.13	14.3	ug/kg dry	50	09/11/23 19:38	5035A/8260D	
Toluene	ND	35.6	71.3	ug/kg dry	50	09/11/23 19:38	5035A/8260D	
Ethylbenzene	ND	17.8	35.6	ug/kg dry	50	09/11/23 19:38	5035A/8260D	
Xylenes, total	ND	53.4	107	ug/kg dry	50	09/11/23 19:38	5035A/8260D	
Naphthalene	ND	71.3	143	ug/kg dry	50	09/11/23 19:38	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 101 %	Limits: 80-120 %	1	09/11/23 19:38	5035A/8260D	
Toluene-d8 (Surr)			104 %	80-120 %	1	09/11/23 19:38	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	09/11/23 19:38	5035A/8260D	
RS-B4-S-8 (A3I0917-04)			Matrix: Soil			Batch:		
Benzene	ND	5.48	11.0	ug/kg dry	50	09/11/23 20:03	5035A/8260D	
Toluene	ND	27.4	54.8	ug/kg dry	50	09/11/23 20:03	5035A/8260D	
Ethylbenzene	ND	13.7	27.4	ug/kg dry	50	09/11/23 20:03	5035A/8260D	
Xylenes, total	ND	41.1	82.2	ug/kg dry	50	09/11/23 20:03	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D					
	Sample	Detection	Reporting			Date	<u> </u>		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes	
RS-B4-S-8 (A3I0917-04)	(A3I0917-04)			Matrix: Soil		Batch:			
Naphthalene	ND	54.8	110	ug/kg dry	50	09/11/23 20:03	5035A/8260D		
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	09/11/23 20:03	5035A/8260D		
Toluene-d8 (Surr)			103 %	80-120 %	1	09/11/23 20:03	5035A/8260D		
4-Bromofluorobenzene (Surr)			94 %	79-120 %	1	09/11/23 20:03	5035A/8260D		
RS-B5-S-6 (A3I0917-05)				Matrix: Soil		Batch:	Batch: 23I0283		
Benzene	ND	5.45	10.9	ug/kg dry	50	09/11/23 20:29	5035A/8260D		
Toluene	ND	27.3	54.5	ug/kg dry	50	09/11/23 20:29	5035A/8260D		
Ethylbenzene	ND	13.6	27.3	ug/kg dry	50	09/11/23 20:29	5035A/8260D		
Xylenes, total	ND	40.9	81.8	ug/kg dry	50	09/11/23 20:29	5035A/8260D		
Naphthalene	ND	54.5	109	ug/kg dry	50	09/11/23 20:29	5035A/8260D		
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	I	09/11/23 20:29	5035A/8260D		
Toluene-d8 (Surr)			102 %	80-120 %	1	09/11/23 20:29	5035A/8260D		
4-Bromofluorobenzene (Surr)			96 %	79-120 %	1	09/11/23 20:29	5035A/8260D		
RS-B6-S-8 (A3I0917-06)				Matrix: Soil		Batch:			
Benzene	ND	6.94	13.9	ug/kg dry	50	09/11/23 20:54	5035A/8260D		
Toluene	ND	34.7	69.4	ug/kg dry	50	09/11/23 20:54	5035A/8260D		
Ethylbenzene	ND	17.4	34.7	ug/kg dry	50	09/11/23 20:54	5035A/8260D		
Xylenes, total	ND	52.1	104	ug/kg dry	50	09/11/23 20:54	5035A/8260D		
Naphthalene	ND	69.4	139	ug/kg dry	50	09/11/23 20:54	5035A/8260D		
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	09/11/23 20:54	5035A/8260D		
Toluene-d8 (Surr)			102 %	80-120 %	1	09/11/23 20:54	5035A/8260D		
4-Bromofluorobenzene (Surr)			95 %	79-120 %	1	09/11/23 20:54	5035A/8260D		
VL-B8-S-11.5 (A3I0917-07)				Matrix: Soil		Batch:			
Benzene	ND	7.04	14.1	ug/kg dry	50	09/11/23 21:20	5035A/8260D		
Toluene	ND	35.2	70.4	ug/kg dry	50	09/11/23 21:20	5035A/8260D		
Ethylbenzene	ND	17.6	35.2	ug/kg dry	50	09/11/23 21:20	5035A/8260D		
Xylenes, total	ND	52.8	106	ug/kg dry	50	09/11/23 21:20	5035A/8260D		
Naphthalene	ND	70.4	141	ug/kg dry	50	09/11/23 21:20	5035A/8260D		
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	I	09/11/23 21:20	5035A/8260D		
Toluene-d8 (Surr)			104 %	80-120 %	I	09/11/23 21:20	5035A/8260D		
4-Bromofluorobenzene (Surr)			95 %	79-120 %	1	09/11/23 21:20	5035A/8260D		

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D											
Analyte	Sample Result	1 0									
VL-B9-S-7 (A3I0917-08)				Matrix: Soil		Batch: 2310283					
Benzene	ND	4.97	9.95	ug/kg dry	50	09/11/23 21:46	5035A/8260D				
Toluene	ND	24.9	49.7	ug/kg dry	50	09/11/23 21:46	5035A/8260D				
Ethylbenzene	ND	12.4	24.9	ug/kg dry	50	09/11/23 21:46	5035A/8260D				
Xylenes, total	ND	37.3	74.6	ug/kg dry	50	09/11/23 21:46	5035A/8260D				
Naphthalene	ND	49.7	99.5	ug/kg dry	50	09/11/23 21:46	5035A/8260D				
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 103 %	Limits: 80-120 %	5 1	09/11/23 21:46	5035A/8260D				
Toluene-d8 (Surr)			103 %	80-120 %	5 1	09/11/23 21:46	5035A/8260D				
4-Bromofluorobenzene (Surr)			95 %	79-120 %	5 1	09/11/23 21:46	5035A/8260D				

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight					
	Sample	Detection	Reporting			Date			
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes	
RS-B1-S-8.5 (A3I0917-01)				Matrix: Soil Batch: 2310284					
% Solids	71.6	1.00	1.00	% 1 09/		09/12/23 06:49	EPA 8000D		
RS-B2-S-8.5 (A3I0917-02)				Matrix: So	2310284				
% Solids	81.3	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
RS-B3-S-12 (A3I0917-03)		Batch:	3atch: 23I0284						
% Solids	70.9	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
RS-B4-S-8 (A3I0917-04)				Matrix: So	il	Batch:			
% Solids	79.7	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
RS-B5-S-6 (A3I0917-05)				Matrix: So	il	Batch:	2310284		
% Solids	80.8	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
RS-B6-S-8 (A3I0917-06)				Matrix: So	il	Batch:	2310284		
% Solids	73.2	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
VL-B8-S-11.5 (A3I0917-07)				Matrix: So	il	Batch:	2310284		
% Solids	68.7	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		
VL-B9-S-7 (A3I0917-08)				Matrix: So	2310284				
% Solids	83.6	1.00	1.00	%	1	09/12/23 06:49	EPA 8000D		

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	or Oil Hyd	Irocarbor	ns by NW	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0357 - EPA 3546 (Fu	uels)						So	il				
Blank (23I0357-BLK1)			Prepared	1: 09/13/23	07:56 Ana	lyzed: 09/13	3/23 21:07					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	vet 1							
Oil	ND	20.0	40.0	mg/kg w	vet 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 86 %	Limits: 50	0-150 %	Dil	lution: 1x					
LCS (23I0357-BS1)			Prepared	1: 09/13/23	07:56 Ana	llyzed: 09/13	3/23 21:27					
NWTPH-Dx												
Diesel	103	10.0	20.0	mg/kg w	et 1	125		83	38-132%			
Surr: o-Terphenyl (Surr)		Rece	overy: 90 %	Limits: 50	0-150 %	Dil	lution: 1x					
Duplicate (23I0357-DUP2)			Prepared	d: 09/13/23	07:56 Ana	lyzed: 09/14	1/23 07:16					
QC Source Sample: Non-SDG (A	311025-01)											
Diesel	143	10.1	20.2	mg/kg d	ry 1		147			3	30%	F-2
Oil	ND	20.2	40.4	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Rece	overy: 91 %	Limits: 50	0-150 %	Dil	lution: 1x					
Duplicate (23I0357-DUP3)			Prepared	d: 09/13/23	07:56 Ana	lyzed: 09/14	4/23 11:47					
OC Source Sample: Non-SDG (A	3I0914-01RE	<u>E1)</u>										
Diesel	21800	1230	2470	mg/kg d	ry 100		24500			12	30%	F-1
Oil	25500	2470	4930	mg/kg d	ry 100		32400			24	30%	F-1
Surr: o-Terphenyl (Surr)		R	ecovery: %	Limits: 50	0-150 %	Dil	lution: 100x	<u> </u>				S-01

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	lydrocarbo	ns (Ben	zene throu	igh Naphi	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0283 - EPA 5035A							Soi	il				
Blank (23I0283-BLK1)			Prepared	1: 09/11/23	10:31 Anal	yzed: 09/11/	/23 12:49					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.50	5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 100 %	Limits: 5	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			107 %	5	0-150 %		"					
LCS (23I0283-BS2)			Prepared	d: 09/11/23	10:31 Anal	yzed: 09/11/	/23 12:19					
NWTPH-Gx (MS)												
Gasoline Range Organics	27.2	2.50	5.00	mg/kg v	vet 50	25.0		109	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 5	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			106 %	5	0-150 %		"					
Duplicate (23I0283-DUP1)			Prepared	1: 09/05/23	09:40 Anal	yzed: 09/11/	/23 15:48					
QC Source Sample: Non-SDG (A3	3 <u>10919-01)</u>											
Gasoline Range Organics	ND	3.77	7.54	mg/kg o	lry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 100 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			108 %	5	0-150 %		"					
Duplicate (23I0283-DUP2)			Prepared	1: 09/08/23	09:50 Anal	yzed: 09/11/	/23 18:47					
QC Source Sample: RS-B1-S-8.5	(A3I0917-01)										
NWTPH-Gx (MS)												
Gasoline Range Organics	6.54	3.67	7.34	mg/kg o	•		8.02			20	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 103 %	Limits: 5		Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			107 %	5	0-150 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0350 - EPA 5035A							Soi	il				
Blank (23I0350-BLK1)			Prepared	d: 09/12/23	16:16 Anal	lyzed: 09/12	/23 18:59					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.50	5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 97 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			109 %	5	0-150 %		"					
LCS (23I0350-BS2)			Prepared	d: 09/12/23	16:16 Ana	yzed: 09/12	/23 18:33					
NWTPH-Gx (MS)												
Gasoline Range Organics	29.1	2.50	5.00	mg/kg v	vet 50	25.0		116	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 93 %	Limits: 5	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			107 %	5	0-150 %		"					
Duplicate (23I0350-DUP1)			Prepared	d: 09/12/23	10:35 Anal	yzed: 09/12	/23 20:15					V-
QC Source Sample: Non-SDG (A3	310965-01)		·		·				·			
Gasoline Range Organics	ND	4.42	8.85	mg/kg	dry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 98 %	Limits: 5	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			109 %	_	0-150 %		,,					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0283 - EPA 5035A							Soi	il				
Blank (23I0283-BLK1)			Prepared	d: 09/11/23 1	0:31 Anal	yzed: 09/11	/23 12:49					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	t 50							
Toluene	ND	25.0	50.0	ug/kg we	t 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	t 50							
Naphthalene	ND	50.0	100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 102 %	Limits: 80-	-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	79-	120 %		"					
LCS (2310283-BS1)			Prepared	d: 09/11/23 1	0:31 Anal	lyzed: 09/11	/23 11:54					
5035A/8260D												
Benzene	1020	5.00	10.0	ug/kg we	t 50	1000		102	80-120%			
Toluene	1010	25.0	50.0	ug/kg we	t 50	1000		101	80-120%			
Ethylbenzene	988	12.5	25.0	ug/kg we	t 50	1000		99	80-120%			
Xylenes, total	2920	37.5	75.0	ug/kg we	t 50	3000		97	80-120%			
Naphthalene	872	50.0	100	ug/kg we	t 50	1000		87	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 101 %	Limits: 80-	-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			103 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			94 %	79-	120 %		"					
Duplicate (23I0283-DUP1)			Prepared	d: 09/05/23 0	9:40 Anal	lyzed: 09/11	/23 15:48					
QC Source Sample: Non-SDG (A3	I0919-01)											
Benzene	ND	7.54	15.1	ug/kg dry	y 50		ND				30%	
Toluene	ND	37.7	75.4	ug/kg dry	y 50		ND				30%	
Ethylbenzene	ND	18.9	37.7	ug/kg dry	y 50		ND				30%	
Xylenes, total	ND	56.6	113	ug/kg dry			ND				30%	
Naphthalene	ND	75.4	151	ug/kg dry			ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 102 %	Limits: 80-		Dil	ution: 1x					
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			95 %	70_	120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection I Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0283 - EPA 5035A							Soi	I				
Ouplicate (23I0283-DUP2)			Prepared	1: 09/08/23 (9:50 Anal	yzed: 09/11/	/23 18:47					
QC Source Sample: RS-B1-S-8.5	A310917-01)										
5035A/8260D												
Benzene	ND	7.34	14.7	ug/kg dr	y 50		ND				30%	
Toluene	ND	36.7	73.4	ug/kg dr	y 50		ND				30%	
Ethylbenzene	ND	18.3	36.7	ug/kg dr	y 50		ND				30%	
Xylenes, total	ND	55.0	110	ug/kg dr	y 50		ND				30%	
Naphthalene	ND	73.4	147	ug/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recovery	v: 101 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	-120 %		"					
4-Bromofluorobenzene (Surr)			96 %	79-	-120 %		"					
Matrix Spike (23I0283-MS1)			Prepared	1: 09/07/23 1	7:00 Anal	yzed: 09/11/	/23 14:31					
QC Source Sample: Non-SDG (A3	10910-02)											
5035A/8260D												
Benzene	1250	5.59	11.2	ug/kg dr	y 50	1120	ND	112	77-121%			
Toluene	1230	28.0	55.9	ug/kg dr	y 50	1120	ND	110	77-121%			
Ethylbenzene	1210	14.0	28.0	ug/kg dr	y 50	1120	ND	108	76-122%			
Xylenes, total	3580	41.9	83.9	ug/kg dr	y 50	3350	ND	107	78-124%			
Naphthalene	971	55.9	112	ug/kg dr	y 50	1120	ND	87	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Recovery	v: 100 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	-120 %		"					
4-Bromofluorobenzene (Surr)			92 %	79-	-120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0284 - Total Solids (Dr	y Weigh	t) - 2022					Soi	l				
Duplicate (23I0284-DUP1)			Prepared	: 09/11/23	10:25 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1907-01)</u>											
% Solids	78.1	1.00	1.00	%	1		78.3			0.2	10%	
Duplicate (23I0284-DUP2)			Prepared	: 09/11/23	10:25 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1907-02)</u>											
% Solids	77.6	1.00	1.00	%	1		78.6			1	10%	
Duplicate (23I0284-DUP3)			Prepared	: 09/11/23	10:25 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u>1907-03)</u>											
% Solids	81.9	1.00	1.00	%	1		81.9			0.04	10%	
Duplicate (23I0284-DUP4)			Prepared	: 09/11/23	10:25 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1907-04)</u>											
% Solids	67.5	1.00	1.00	%	1		67.4			0.2	10%	
Duplicate (23I0284-DUP5)			Prepared	: 09/11/23	10:25 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1907-05)</u>											
% Solids	77.5	1.00	1.00	%	1		76.6			1	10%	
Duplicate (23I0284-DUP6)			Prepared	: 09/11/23	18:49 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1949-01)</u>											
% Solids	69.4	1.00	1.00	%	1		69.9			0.6	10%	
Duplicate (23I0284-DUP7)			Prepared	: 09/11/23	18:49 Anal	yzed: 09/12/	/23 06:49					
QC Source Sample: Non-SDG (A310	<u> 1962-02)</u>											
% Solids	92.5	1.00	1.00	%	1		93.6			1	10%	

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

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I0917 - 11 22 23 1601

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	ns by NWTPH-Dx			
Prep: EPA 3546 (Fu	uels)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0357							
A3I0917-01	Soil	NWTPH-Dx	09/08/23 09:50	09/13/23 07:56	10.12g/5mL	10g/5mL	0.99
A3I0917-02	Soil	NWTPH-Dx	09/08/23 10:25	09/13/23 07:56	10.65g/5mL	10g/5mL	0.94
A3I0917-03	Soil	NWTPH-Dx	09/08/23 11:45	09/13/23 07:56	10.8g/5mL	10g/5mL	0.93
A3I0917-04	Soil	NWTPH-Dx	09/08/23 13:28	09/13/23 07:56	10.29g/5mL	10g/5mL	0.97
A3I0917-05	Soil	NWTPH-Dx	09/08/23 13:58	09/13/23 07:56	10.28g/5mL	10g/5mL	0.97
A3I0917-06	Soil	NWTPH-Dx	09/08/23 14:35	09/13/23 07:56	10.11g/5mL	10g/5mL	0.99
A3I0917-07	Soil	NWTPH-Dx	09/08/23 16:17	09/13/23 07:56	10.48g/5mL	10g/5mL	0.95
A3I0917-08	Soil	NWTPH-Dx	09/08/23 16:39	09/13/23 07:56	10.16g/5mL	10g/5mL	0.98

<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0283							
A3I0917-02	Soil	NWTPH-Gx (MS)	09/08/23 10:25	09/08/23 10:25	6.99g/5mL	5g/5mL	0.72
A3I0917-03	Soil	NWTPH-Gx (MS)	09/08/23 11:45	09/08/23 11:45	6.96g/5mL	5g/5mL	0.72
A3I0917-04	Soil	NWTPH-Gx (MS)	09/08/23 13:28	09/08/23 13:28	7.46g/5mL	5g/5mL	0.67
A3I0917-05	Soil	NWTPH-Gx (MS)	09/08/23 13:58	09/08/23 13:58	7.26g/5mL	5g/5mL	0.69
A3I0917-06	Soil	NWTPH-Gx (MS)	09/08/23 14:35	09/08/23 14:35	6.69g/5mL	5g/5mL	0.75
A3I0917-07	Soil	NWTPH-Gx (MS)	09/08/23 16:17	09/08/23 16:17	7.64g/5mL	5g/5mL	0.65
A3I0917-08	Soil	NWTPH-Gx (MS)	09/08/23 16:39	09/08/23 16:39	7.48g/5mL	5g/5mL	0.67
Batch: 23I0350							
A3I0917-01RE1	Soil	NWTPH-Gx (MS)	09/08/23 09:50	09/08/23 09:50	6.53g/5mL	5g/5mL	0.77

		BTE	X+N Compounds by	EPA 8260D			
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0283							
A3I0917-01	Soil	5035A/8260D	09/08/23 09:50	09/08/23 09:50	6.53g/5mL	5g/5mL	0.77
A3I0917-02	Soil	5035A/8260D	09/08/23 10:25	09/08/23 10:25	6.99g/5mL	5g/5mL	0.72
A3I0917-03	Soil	5035A/8260D	09/08/23 11:45	09/08/23 11:45	6.96g/5mL	5g/5mL	0.72
A3I0917-04	Soil	5035A/8260D	09/08/23 13:28	09/08/23 13:28	7.46g/5mL	5g/5mL	0.67
A3I0917-05	Soil	5035A/8260D	09/08/23 13:58	09/08/23 13:58	7.26g/5mL	5g/5mL	0.69
A3I0917-06	Soil	5035A/8260D	09/08/23 14:35	09/08/23 14:35	6.69g/5mL	5g/5mL	0.75
A3I0917-07	Soil	5035A/8260D	09/08/23 16:17	09/08/23 16:17	7.64g/5mL	5g/5mL	0.65

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weath

Project Number: 0106.37.001 Report ID:
Project Manager: David Weatherby A3I0917 - 11 22 23 1601

SAMPLE PREPARATION INFORMATION

		BTE	X+N Compounds by	EPA 8260D			
<u>Prep: EPA 5035A</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3I0917-08	Soil	5035A/8260D	09/08/23 16:39	09/08/23 16:39	7.48g/5mL	5g/5mL	0.67

			Percent Dry We	ight			
Prep: Total Solids (Dry Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 2310284							
A3I0917-01	Soil	EPA 8000D	09/08/23 09:50	09/11/23 10:25			NA
A3I0917-02	Soil	EPA 8000D	09/08/23 10:25	09/11/23 10:25			NA
A3I0917-03	Soil	EPA 8000D	09/08/23 11:45	09/11/23 10:25			NA
A3I0917-04	Soil	EPA 8000D	09/08/23 13:28	09/11/23 10:25			NA
A3I0917-05	Soil	EPA 8000D	09/08/23 13:58	09/11/23 10:25			NA
A3I0917-06	Soil	EPA 8000D	09/08/23 14:35	09/11/23 10:25			NA
A3I0917-07	Soil	EPA 8000D	09/08/23 16:17	09/11/23 10:25			NA
A3I0917-08	Soil	EPA 8000D	09/08/23 16:39	09/11/23 10:25			NA

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310917 - 11 22 23 1601

QUALIFIER DEFINITIONS

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

Apex Laboratories

- F-15 Results for diesel are estimated due to overlap from the reported oil result.
- F-16 Results for oil are estimated due to overlap from the reported diesel result.
- F-20 Result for Diesel is Estimated due to overlap from Gasoline Range Organics or other VOCs.
- F-24 The chromatographic pattern does not resemble the fuel standard used for quantitation. The Diesel result represents carbon range C10 to C25, and the Oil result represents >C25 to C40.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.
- V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310917 - 11 22 23 1601

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).

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Report ID:

Maul Foster & Alongi, INC. Redland Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232 Project Manager: David Weatherby A3I0917 - 11 22 23 1601

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA310917 - 11 22 23 1601

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street

Portland, OR 97232

Project: Redland

Project Number: 0106.37.001

Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

6700 SW Sandburg St., Tigard, OR 97223 Ph.: 503-718-2323	97223 Ph:	503-718	8-2323																				
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Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I0917 - 11 22 23 1601

_	APEX LABS COOLER RECEIPT FORM
Client: MFA	Element WO#: A3[6917
Project/Project #: \(\subseteq \text{Le} \)	ed land store 0106.37.001
Delivery Info:	
	123@ 175Z By: RMP
Delivered by: Apex Clier	nt_ESSFedEx_UPS_RadioMorganSDSEvergreenOther
Cooler Inspection Dat	te/time inspected: 918123@ 1751 By: KYP
Chain of Custody included	
Signed/dated by client?	Yes No
	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	14.6
Custody seals? (Y/N)	N'
Received on ice? (Y/N)	
Temp. blanks? (Y/N)	N
Ice type: (Gel/Real/Other)	
Condition (In/Out):	Possible reason why: RECENTY SAMPLED
	E/time inspected: 9/8/23 @ 18:04 By: 2/3/2
Bottle labels/COCs agree?	Yes
COC/container discrepancie	es form initiated? Yes No 🗶
	ed appropriate for analysis? Yes 🔀 No Comments:
	headspace? Yes No NA L
Comments	
	l: YesNoNApH appropriate? YesNoNA
Comments:	
Additional information:	
Additional information:	
Additional information:	Witness: Cooler Inspected by:

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3I1236 - Redland - 0106.37.001

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 A3I1236, which was received by the laboratory on 9/19/2023 at 5:40:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 1.5 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VL-SWW-S1-8.0	A3I1236-01	Soil	09/19/23 14:27	09/19/23 17:40
VL-SWW-S2-10.0	A3I1236-02	Soil	09/19/23 14:35	09/19/23 17:40
VL-SWW-S3-8.5	A3I1236-03	Soil	09/19/23 14:42	09/19/23 17:40
VL-SWW-S4-10.0	A3I1236-04	Soil	09/19/23 14:48	09/19/23 17:40
VL-SP-CS-002	A3I1236-05	Soil	09/19/23 15:20	09/19/23 17:40
VL-SP-CS-003	A3I1236-06	Soil	09/19/23 15:25	09/19/23 17:40
VL-EB-S-001	A3I1236-07	Soil	09/19/23 16:03	09/19/23 17:40
VL-EB-S-002	A3I1236-08	Soil	09/19/23 16:13	09/19/23 17:40
VL-EB-S-003	A3I1236-09	Soil	09/19/23 16:24	09/19/23 17:40
/L-EB-S-004	A3I1236-10	Soil	09/19/23 16:38	09/19/23 17:40
/L-SWN-S5-12.0	A3I1236-11	Soil	09/19/23 16:45	09/19/23 17:40

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTP	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-SWW-S1-8.0 (A3I1236-01RE1)				Matrix: Soil		Batch:	2310784	
Diesel	ND	11.7	23.4	mg/kg dry	1	09/26/23 18:57	NWTPH-Dx	
Oil	ND	23.4	46.8	mg/kg dry	1	09/26/23 18:57	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recon	very: 92 %	Limits: 50-150 %	6 1	09/26/23 18:57	NWTPH-Dx	
VL-SWW-S2-10.0 (A3I1236-02RE1)				Matrix: Soil		Batch:	2310784	
Diesel	ND	13.1	26.2	mg/kg dry	1	09/26/23 19:45	NWTPH-Dx	
Oil	ND	26.2	52.3	mg/kg dry	1	09/26/23 19:45	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	6 I	09/26/23 19:45	NWTPH-Dx	
VL-SWW-S3-8.5 (A3I1236-03RE1)		-		Matrix: Soil		Batch:	2310784	
Diesel	212	11.9	23.9	mg/kg dry	1	09/26/23 20:08	NWTPH-Dx	F-13
Oil	ND	23.9	47.7	mg/kg dry	1	09/26/23 20:08	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 87 %	Limits: 50-150 %	6 1	09/26/23 20:08	NWTPH-Dx	
VL-SWW-S4-10.0 (A3I1236-04RE1)				Matrix: Soil		Batch:		
Diesel	35.7	14.1	28.2	mg/kg dry	1	09/26/23 20:31	NWTPH-Dx	F-13
Oil	ND	28.2	56.4	mg/kg dry	1	09/26/23 20:31	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 %	6 I	09/26/23 20:31	NWTPH-Dx	
VL-SP-CS-002 (A3I1236-05)				Matrix: Soil		Batch:	2310661	
Diesel	ND	11.6	23.1	mg/kg dry	1	09/22/23 04:43	NWTPH-Dx	
Oil	48.2	23.1	46.3	mg/kg dry	1	09/22/23 04:43	NWTPH-Dx	F-03
Surrogate: o-Terphenyl (Surr)		Reco	very: 80 %	Limits: 50-150 %	6 1	09/22/23 04:43	NWTPH-Dx	
VL-SP-CS-003 (A3I1236-06)				Matrix: Soil		Batch:	2310661	
Diesel	14.0	11.6	23.2	mg/kg dry	1	09/22/23 05:25	NWTPH-Dx	J
Oil	34.6	23.2	46.3	mg/kg dry	1	09/22/23 05:25	NWTPH-Dx	J
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	6 1	09/22/23 05:25	NWTPH-Dx	
VL-EB-S-001 (A3I1236-07RE1)				Matrix: Soil		Batch:	2310784	
Diesel	ND	13.1	26.3	mg/kg dry	1	09/26/23 20:55	NWTPH-Dx	
Oil	ND	26.3	52.6	mg/kg dry	1	09/26/23 20:55	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recon	very: 83 %	Limits: 50-150 %	6 I	09/26/23 20:55	NWTPH-Dx	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocarl	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-EB-S-002 (A3I1236-08RE1)				Matrix: Soil		Batch:	2310784	
Diesel	13.4	12.5	25.0	mg/kg dry	1	09/26/23 21:18	NWTPH-Dx	J
Oil	ND	25.0	50.0	mg/kg dry	1	09/26/23 21:18	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 81 %	Limits: 50-150 %	1	09/26/23 21:18	NWTPH-Dx	
VL-EB-S-003 (A3I1236-09RE1)				Matrix: Soil		Batch:	2310784	
Diesel	ND	13.6	27.1	mg/kg dry	1	09/26/23 21:42	NWTPH-Dx	
Oil	ND	27.1	54.3	mg/kg dry	1	09/26/23 21:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 83 %	Limits: 50-150 %	1	09/26/23 21:42	NWTPH-Dx	
VL-EB-S-004 (A3I1236-10RE1)				Matrix: Soil		Batch:	2310784	
Diesel	ND	13.1	26.1	mg/kg dry	1	09/26/23 22:05	NWTPH-Dx	
Oil	ND	26.1	52.3	mg/kg dry	1	09/26/23 22:05	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 58 %	Limits: 50-150 %	1	09/26/23 22:05	NWTPH-Dx	
VL-SWN-S5-12.0 (A3I1236-11RE1)	_			Matrix: Soil		Batch:	2310784	
Diesel	27.7	13.9	27.7	mg/kg dry	1	09/26/23 22:28	NWTPH-Dx	F-13
Oil	ND	27.7	55.4	mg/kg dry	1	09/26/23 22:28	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 78 %	Limits: 50-150 %	1	09/26/23 22:28	NWTPH-Dx	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

	ine Range Hy		•						
Analyte	Sample Result	Detection Limit	Reporting Limit	Units		Dilution	Date Analyzed	Method Ref.	Notes
VL-SWW-S1-8.0 (A3I1236-01)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	ND	2.47	4.94	mg/kg dr	у	50	09/20/23 22:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 103 %	Limits: 50-15	50 %	I	09/20/23 22:15	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-15	50 %	1	09/20/23 22:15	NWTPH-Gx (MS)	
VL-SWW-S2-10.0 (A3I1236-02)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	12.9	3.21	6.42	mg/kg dr	у	50	09/20/23 17:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 101 %	Limits: 50-15	50 %	1	09/20/23 17:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-15	50 %	1	09/20/23 17:07	NWTPH-Gx (MS)	
VL-SWW-S3-8.5 (A3I1236-03)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	20.1	2.57	5.14	mg/kg dr	у	50	09/20/23 17:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 50-15	50 %	I	09/20/23 17:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-15	50 %	1	09/20/23 17:58	NWTPH-Gx (MS)	
VL-SWW-S4-10.0 (A3I1236-04)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	14.7	4.10	8.20	mg/kg dr	у	50	09/20/23 18:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 103 %	Limits: 50-15	50 %	1	09/20/23 18:24	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-15	50 %	1	09/20/23 18:24	NWTPH-Gx (MS)	
VL-SP-CS-002 (A3I1236-05)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	ND	2.74	5.48	mg/kg dr	у	50	09/20/23 18:50	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 100 %	Limits: 50-15	50 %	1	09/20/23 18:50	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-15	50 %	1	09/20/23 18:50	NWTPH-Gx (MS)	
VL-SP-CS-003 (A3I1236-06)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	ND	3.18	6.35	mg/kg dr	у	50	09/20/23 19:15	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 98 %	Limits: 50-15	50 %	1	09/20/23 19:15	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-15	50 %	I	09/20/23 19:15	NWTPH-Gx (MS)	
VL-EB-S-001 (A3I1236-07)				Matrix: S	Soil		Batch	: 2310624	
Gasoline Range Organics	ND	3.32	6.65	mg/kg dr	у	50	09/20/23 19:41	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recove	ery: 102 %	Limits: 50-15	50 %	1	09/20/23 19:41	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-15	50 %	1	09/20/23 19:41	NWTPH-Gx (MS)	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (B	enzene tl	hrough Naphtha	lene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-EB-S-002 (A3I1236-08)				Matrix: Soil		Batch	: 2310624	
Gasoline Range Organics	ND	3.43	6.85	mg/kg dry	50	09/20/23 20:07	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits: 50-150 %	1	09/20/23 20:07	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	1	09/20/23 20:07	NWTPH-Gx (MS)	
VL-EB-S-003 (A3I1236-09)				Matrix: Soil		Batch	: 2310624	
Gasoline Range Organics	ND	4.13	8.26	mg/kg dry	50	09/20/23 20:32	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits: 50-150 %	1	09/20/23 20:32	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	09/20/23 20:32	NWTPH-Gx (MS)	
VL-EB-S-004 (A3I1236-10)				Matrix: Soil		Batch	: 2310624	
Gasoline Range Organics	ND	3.69	7.38	mg/kg dry	50	09/20/23 20:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	101 %	Limits: 50-150 %	1	09/20/23 20:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			107 %	50-150 %	1	09/20/23 20:58	NWTPH-Gx (MS)	
VL-SWN-S5-12.0 (A3I1236-11)				Matrix: Soil		Batch	: 2310624	
Gasoline Range Organics	619	6.89	13.8	mg/kg dry	100	09/20/23 21:24	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	108 %	Limits: 50-150 %	1	09/20/23 21:24	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			106 %	50-150 %	1	09/20/23 21:24	NWTPH-Gx (MS)	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-SWW-S1-8.0 (A3I1236-01)				Matrix: Soil		Batch:	2310624	
Benzene	ND	4.94	9.89	ug/kg dry	50	09/20/23 22:15	5035A/8260D	
Toluene	ND	24.7	49.4	ug/kg dry	50	09/20/23 22:15	5035A/8260D	
Ethylbenzene	ND	12.4	24.7	ug/kg dry	50	09/20/23 22:15	5035A/8260D	
Xylenes, total	ND	37.1	74.2	ug/kg dry	50	09/20/23 22:15	5035A/8260D	
Naphthalene	ND	49.4	98.9	ug/kg dry	50	09/20/23 22:15	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	09/20/23 22:15	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/20/23 22:15	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 22:15	5035A/8260D	
VL-SWW-S2-10.0 (A3I1236-02)				Matrix: Soil		Batch:	2310624	
Benzene	ND	6.42	12.8	ug/kg dry	50	09/20/23 17:07	5035A/8260D	
Toluene	ND	32.1	64.2	ug/kg dry	50	09/20/23 17:07	5035A/8260D	
Ethylbenzene	ND	16.0	32.1	ug/kg dry	50	09/20/23 17:07	5035A/8260D	
Xylenes, total	ND	48.1	96.2	ug/kg dry	50	09/20/23 17:07	5035A/8260D	
Naphthalene	ND	64.2	128	ug/kg dry	50	09/20/23 17:07	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-120 %	1	09/20/23 17:07	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/20/23 17:07	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 17:07	5035A/8260D	
VL-SWW-S3-8.5 (A3I1236-03)				Matrix: Soil		Batch:	2310624	
Benzene	ND	5.14	10.3	ug/kg dry	50	09/20/23 17:58	5035A/8260D	
Toluene	ND	25.7	51.4	ug/kg dry	50	09/20/23 17:58	5035A/8260D	
Ethylbenzene	ND	12.9	25.7	ug/kg dry	50	09/20/23 17:58	5035A/8260D	
Xylenes, total	ND	38.6	77.1	ug/kg dry	50	09/20/23 17:58	5035A/8260D	
Naphthalene	ND	51.4	103	ug/kg dry	50	09/20/23 17:58	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	I	09/20/23 17:58	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	09/20/23 17:58	5035A/8260D	
4-Bromofluorobenzene (Surr)			97 %	79-120 %	1	09/20/23 17:58	5035A/8260D	
VL-SWW-S4-10.0 (A3I1236-04)				Matrix: Soil		Batch:		
Benzene	ND	8.20	16.4	ug/kg dry	50	09/20/23 18:24	5035A/8260D	
Toluene	ND	41.0	82.0	ug/kg dry	50	09/20/23 18:24	5035A/8260D	
Ethylbenzene	ND	20.5	41.0	ug/kg dry	50	09/20/23 18:24	5035A/8260D	
Xylenes, total	ND	61.5	123	ug/kg dry	50	09/20/23 18:24	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-SWW-S4-10.0 (A3I1236-04)				Matrix: Soil		Batch:	2310624	
Naphthalene	ND	82.0	164	ug/kg dry	50	09/20/23 18:24	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	09/20/23 18:24	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/20/23 18:24	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 18:24	5035A/8260D	
VL-SP-CS-002 (A3I1236-05)				Matrix: Soil		Batch:	2310624	
Benzene	ND	5.48	11.0	ug/kg dry	50	09/20/23 18:50	5035A/8260D	
Toluene	ND	27.4	54.8	ug/kg dry	50	09/20/23 18:50	5035A/8260D	
Ethylbenzene	ND	13.7	27.4	ug/kg dry	50	09/20/23 18:50	5035A/8260D	
Xylenes, total	ND	41.1	82.1	ug/kg dry	50	09/20/23 18:50	5035A/8260D	
Naphthalene	ND	54.8	110	ug/kg dry	50	09/20/23 18:50	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-120 %	1	09/20/23 18:50	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	09/20/23 18:50	5035A/8260D	
4-Bromofluorobenzene (Surr)			101 %	79-120 %	1	09/20/23 18:50	5035A/8260D	
VL-SP-CS-003 (A3I1236-06)				Matrix: Soil		Batch:	2310624	
Benzene	ND	6.35	12.7	ug/kg dry	50	09/20/23 19:15	5035A/8260D	
Toluene	ND	31.8	63.5	ug/kg dry	50	09/20/23 19:15	5035A/8260D	
Ethylbenzene	ND	15.9	31.8	ug/kg dry	50	09/20/23 19:15	5035A/8260D	
Xylenes, total	ND	47.6	95.3	ug/kg dry	50	09/20/23 19:15	5035A/8260D	
Naphthalene	ND	63.5	127	ug/kg dry	50	09/20/23 19:15	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	09/20/23 19:15	5035A/8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	09/20/23 19:15	5035A/8260D	
4-Bromofluorobenzene (Surr)			99 %	79-120 %	1	09/20/23 19:15	5035A/8260D	
VL-EB-S-001 (A3I1236-07)				Matrix: Soil		Batch:	2310624	
Benzene	ND	6.65	13.3	ug/kg dry	50	09/20/23 19:41	5035A/8260D	
Toluene	ND	33.2	66.5	ug/kg dry	50	09/20/23 19:41	5035A/8260D	
Ethylbenzene	ND	16.6	33.2	ug/kg dry	50	09/20/23 19:41	5035A/8260D	
Xylenes, total	ND	49.8	99.7	ug/kg dry	50	09/20/23 19:41	5035A/8260D	
Naphthalene	ND	66.5	133	ug/kg dry	50	09/20/23 19:41	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	09/20/23 19:41	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/20/23 19:41	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 19:41	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-EB-S-002 (A3I1236-08)				Matrix: Soil		Batch:	2310624	
Benzene	ND	6.85	13.7	ug/kg dry	50	09/20/23 20:07	5035A/8260D	
Toluene	ND	34.3	68.5	ug/kg dry	50	09/20/23 20:07	5035A/8260D	
Ethylbenzene	ND	17.1	34.3	ug/kg dry	50	09/20/23 20:07	5035A/8260D	
Xylenes, total	ND	51.4	103	ug/kg dry	50	09/20/23 20:07	5035A/8260D	
Naphthalene	ND	68.5	137	ug/kg dry	50	09/20/23 20:07	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	09/20/23 20:07	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	09/20/23 20:07	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 20:07	5035A/8260D	
VL-EB-S-003 (A3I1236-09)				Matrix: Soil		Batch:	2310624	
Benzene	ND	8.26	16.5	ug/kg dry	50	09/20/23 20:32	5035A/8260D	
Toluene	ND	41.3	82.6	ug/kg dry	50	09/20/23 20:32	5035A/8260D	
Ethylbenzene	ND	20.6	41.3	ug/kg dry	50	09/20/23 20:32	5035A/8260D	
Xylenes, total	ND	61.9	124	ug/kg dry	50	09/20/23 20:32	5035A/8260D	
Naphthalene	ND	82.6	165	ug/kg dry	50	09/20/23 20:32	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-120 %	1	09/20/23 20:32	5035A/8260D	
Toluene-d8 (Surr)			98 %	80-120 %	1	09/20/23 20:32	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 20:32	5035A/8260D	
VL-EB-S-004 (A3I1236-10)				Matrix: Soil		Batch:	2310624	
Benzene	ND	7.38	14.8	ug/kg dry	50	09/20/23 20:58	5035A/8260D	
Toluene	ND	36.9	73.8	ug/kg dry	50	09/20/23 20:58	5035A/8260D	
Ethylbenzene	ND	18.5	36.9	ug/kg dry	50	09/20/23 20:58	5035A/8260D	
Xylenes, total	ND	55.4	111	ug/kg dry	50	09/20/23 20:58	5035A/8260D	
Naphthalene	ND	73.8	148	ug/kg dry	50	09/20/23 20:58	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	I	09/20/23 20:58	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	09/20/23 20:58	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	1	09/20/23 20:58	5035A/8260D	
VL-SWN-S5-12.0 (A3I1236-11)				Matrix: Soil		Batch:	2310624	
Benzene	ND	13.8	27.5	ug/kg dry	100	09/20/23 21:24	5035A/8260D	
Toluene	ND	68.9	138	ug/kg dry	100	09/20/23 21:24	5035A/8260D	
Ethylbenzene	303	34.4	68.9	ug/kg dry	100	09/20/23 21:24	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

	BTEX+N Compounds by EPA 8260D											
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes				
VL-SWN-S5-12.0 (A3I1236-11) Matrix: Soil Batch: 23I0624												
Xylenes, total	749	103	207	ug/kg dry	100	09/20/23 21:24	5035A/8260D					
Naphthalene	444	138	275	ug/kg dry	100	09/20/23 21:24	5035A/8260D					
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	5 1	09/20/23 21:24	5035A/8260D					
Toluene-d8 (Surr)			98 %	80-120 %	5 1	09/20/23 21:24	5035A/8260D					
4-Bromofluorobenzene (Surr)			98 %	79-120 %	5 1	09/20/23 21:24	5035A/8260D					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-SWW-S1-8.0 (A3I1236-01)				Matrix: Soi	l	Batch:	2310626	
% Solids	84.1	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-SWW-S2-10.0 (A3I1236-02)				Matrix: Soi	I	Batch:	2310626	
% Solids	75.5	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-SWW-S3-8.5 (A3I1236-03)				Matrix: Soi	I	Batch:	2310626	
% Solids	82.3	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-SWW-S4-10.0 (A3I1236-04)				Matrix: Soi	I	Batch:	2310626	
% Solids	69.0	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-SP-CS-002 (A3I1236-05)				Matrix: Soi	l	Batch:		
% Solids	83.8	1.00	1.00	%	1	09/21/23 07:45		
VL-SP-CS-003 (A3I1236-06)				Matrix: Soi	I	Batch:	2310626	
% Solids	83.8	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-EB-S-001 (A3I1236-07)				Matrix: Soi	I	Batch:	2310626	
% Solids	74.7	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-EB-S-002 (A3I1236-08)				Matrix: Soi	l	Batch:	2310626	
% Solids	73.6	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	
VL-EB-S-003 (A3I1236-09)				Matrix: Soi	I	Batch:	2310626	
% Solids	72.2	1.00	1.00	%	1	09/21/23 07:45		
VL-EB-S-004 (A3I1236-10)				Matrix: Soi	I	Batch:		
% Solids	73.1	1.00	1.00	%	1	09/21/23 07:45		
VL-SWN-S5-12.0 (A3I1236-11)				Matrix: Soi	ı	Batch:		
% Solids	71.9	1.00	1.00	%	1	09/21/23 07:45	EPA 8000D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	r Oil Hyd	drocarbon	s by NW	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0661 - EPA 3546 (Fu	ıels)						So	il				
Blank (23I0661-BLK1)			Prepared	: 09/21/23	09:06 Anal	yzed: 09/22	2/23 00:36					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	vet 1							
Oil	ND	20.0	40.0	mg/kg w	vet 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 84 %	Limits: 50	0-150 %	Dil	ution: 1x					
LCS (23I0661-BS1)			Prepared	: 09/21/23	09:06 Anal	yzed: 09/22	2/23 00:57					
NWTPH-Dx												
Diesel	114	10.0	20.0	mg/kg w	vet 1	125		91	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 91 %	Limits: 50	0-150 %	Dil	ution: 1x					
Duplicate (23I0661-DUP1)			Prepared	: 09/21/23	09:06 Anal	yzed: 09/22	2/23 01:38					
QC Source Sample: Non-SDG (A	310996-04)											
Diesel	ND	11.8	23.7	mg/kg d	lry 1		ND				30%	
Oil	ND	23.7	47.3	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 68 %	Limits: 50	0-150 %	Dil	ution: Ix					
Batch 23I0784 - EPA 3546 (Fu	ıels)						So	il				
Blank (23I0784-BLK2)			Prepared	1: 09/25/23	10:23 Anal	lyzed: 09/26	5/23 18:11					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	vet 1							
Oil	ND	20.0	40.0	mg/kg w	vet 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 88 %	Limits: 50	0-150 %	Dill	ution: 1x					
LCS (23I0784-BS2)			Prepared	: 09/25/23	10:23 Anal	yzed: 09/26	5/23 18:34					
NWTPH-Dx												
Diesel	105	10.0	20.0	mg/kg w	vet 1	125		84	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 90 %	Limits: 50	0-150 %	Dil	ution: 1x					
Duplicate (23I0784-DUP3)			Prepared	: 09/25/23	10:23 Anal	yzed: 09/26	5/23 <u>1</u> 9:21					
QC Source Sample: VL-SWW-S1	-8.0 (A3I123	36-01RE1)										
NWTPH-Dx												
	ND	11.0	22.1	mg/kg d	ry 1		ND				30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/d	or Oil Hyd	Irocarbor	s by NW1	ГРН-Dх					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0784 - EPA 3546 (Fu	els)						Soi	il				
Duplicate (23I0784-DUP3)			Prepared	d: 09/25/23	10:23 Ana	lyzed: 09/26	/23 19:21					
QC Source Sample: VL-SWW-S1-	8.0 (A3I123	36-01RE1)										
Oil	ND	22.1	44.1	mg/kg d	ry 1		ND				30%	
Surr: o-Terphenyl (Surr)		Rece	overy: 90 %	Limits: 50	0-150 %	Dilt	ution: 1x					
Duplicate (23I0784-DUP4)			Prepared	1: 09/25/23	10:23 Ana	lyzed: 09/27	/23 03:55					
QC Source Sample: Non-SDG (A3	11301-02RE	<u> 21)</u>										
Diesel	1570	137	275	mg/kg d	ry 10		2250			36	30%	F-15, Q-0
Oil	1140	275	550	mg/kg d	ry 10		1660			37	30%	F-16, Q-0
Surr: o-Terphenyl (Surr)		Rece	overy: 54 %	Limits: 50	0-150 %	Dilt	ution: 10x					S-05
Matrix Spike (23I0784-MS2)			Prepared	1: 09/25/23	10:23 Ana	lyzed: 09/27	/23 05:05					
QC Source Sample: Non-SDG (A3	11301-03RE	<u> 21)</u>										
NWTPH-Dx												
Diesel	135	11.0	22.1	mg/kg d	ry 1	138	ND	98	38-132%			
Surr: o-Terphenyl (Surr)		Reco	very: 101 %	Limits: 50	0-150 %	Dilı	ution: 1x					
Matrix Spike Dup (2310784-MS	SD2)		Prepared	1: 09/25/23	10:23 Ana	lyzed: 09/27	/23 05:29					
QC Source Sample: Non-SDG (A3	11301-03RE	21)				·						
Diesel	140	11.3	22.7	mg/kg d	ry 1	142	ND	98	38-132%	4	30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 93 %	Limits: 50	0-150 %	Dilt	ution: 1x					_

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolii	ne Range H	- Iydrocarbo	ons (Benz	ene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0624 - EPA 5035A							So	il				
Blank (23I0624-BLK1)			Prepare	d: 09/20/23	11:54 Ana	yzed: 09/20	/23 13:14					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.50	5.00	mg/kg w	et 50							
Surr: 4-Bromofluorobenzene (Sur)		Rece	overy: 98 %	Limits: 50	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	50	1-150 %		"					
LCS (23I0624-BS2)			Prepare	d: 09/20/23	11:54 Ana	yzed: 09/20	/23 12:44					
NWTPH-Gx (MS)												
Gasoline Range Organics	27.5	2.50	5.00	mg/kg w	et 50	25.0		110	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	overy: 95 %	Limits: 50	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			105 %	50	-150 %		"					
Duplicate (23I0624-DUP1)			Prepared	d: 09/19/23	14:35 Ana	lyzed: 09/20	/23 17:32					
QC Source Sample: VL-SWW-S2-	-10.0 (A3I12	236-02)										
NWTPH-Gx (MS)												
Gasoline Range Organics	11.8	3.21	6.42	mg/kg d	ry 50		12.9			9	30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 101 %	Limits: 50	0-150 %	Dili	ution: 1x					
1,4-Difluorobenzene (Sur)			104 %	50	1-150 %		"					
Duplicate (23I0624-DUP2)			Preparec	d: 09/19/23	16:45 Ana	yzed: 09/20	/23 21:50					
OC Source Sample: VL-SWN-S5-	12.0 (A3I12	36-11)										
NWTPH-Gx (MS)												
Gasoline Range Organics	602	6.89	13.8	mg/kg d	ry 100		619			3	30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 101 %	Limits: 50	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	50	-150 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0624 - EPA 5035A							Soi	il				
Blank (23I0624-BLK1)			Prepare	d: 09/20/23 1	1:54 Ana	lyzed: 09/20	/23 13:14					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	t 50							
Toluene	ND	25.0	50.0	ug/kg we	t 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	t 50							
Naphthalene	ND	50.0	100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-	-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			100 %	79-	120 %		"					
LCS (23I0624-BS1)			Prepare	d: 09/20/23 1	1:54 Ana	lyzed: 09/20	/23 12:18					
5035A/8260D			-			•						
Benzene	1010	5.00	10.0	ug/kg we	t 50	1000		101	80-120%			
Toluene	1000	25.0	50.0	ug/kg we	t 50	1000		100	80-120%			
Ethylbenzene	1000	12.5	25.0	ug/kg we	t 50	1000		100	80-120%			
Xylenes, total	3060	37.5	75.0	ug/kg we	t 50	3000		102	80-120%			
Naphthalene	915	50.0	100	ug/kg we	t 50	1000		92	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-	-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			98 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	79-	120 %		"					
Duplicate (23I0624-DUP1)			Prepared	d: 09/19/23 1	4:35 Ana	lyzed: 09/20	/23 17:32					
QC Source Sample: VL-SWW-S2-	10.0 (A3I12	236-02)										
5035A/8260D	•											
Benzene	ND	6.42	12.8	ug/kg dr	v 50		ND				30%	
Toluene	ND	32.1	64.2	ug/kg dr			ND				30%	
Ethylbenzene	ND	16.0	32.1	ug/kg dr			ND				30%	
Xylenes, total	ND	48.1	96.2	ug/kg dr			ND				30%	
Naphthalene	ND	64.2	128	ug/kg dr	,		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		-	very: 98%	Limits: 80-	<u> </u>		ution: 1x					
Toluene-d8 (Surr)		neco	100 %		120 %	Dill	ution. 1x					
4-Bromofluorobenzene (Surr)			99 %		120 %		,,					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weath

Project Number: 0106.37.001 Report ID:
Project Manager: David Weatherby A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0624 - EPA 5035A							So	il				
Duplicate (23I0624-DUP2)			Prepared	1: 09/19/23	6:45 Anal	yzed: 09/20/	/23 21:50					
QC Source Sample: VL-SWN-S5-1	12.0 (A3I12	<u>36-11)</u>										
5035A/8260D												
Benzene	ND	13.8	27.5	ug/kg dr	y 100		ND				30%	
Toluene	ND	68.9	138	ug/kg dr	y 100		ND				30%	
Ethylbenzene	298	34.4	68.9	ug/kg dr	y 100		303			2	30%	
Xylenes, total	716	103	207	ug/kg dr	y 100		749			5	30%	
Naphthalene	460	138	275	ug/kg dr	y 100		444			4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 99%	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	79-	-120 %		"					
Matrix Spike (23I0624-MS1)			Prepared	1: 09/19/23	4:27 Anal	yzed: 09/20/	/23 22:41					
QC Source Sample: VL-SWW-S1-	8.0 (A3I123	<u>36-01)</u>										
5035A/8260D												
Benzene	1060	4.94	9.89	ug/kg dr	y 50	989	ND	108	77-121%			
Toluene	1060	24.7	49.4	ug/kg dr	y 50	989	ND	107	77-121%			
Ethylbenzene	1060	12.4	24.7	ug/kg dr	y 50	989	ND	107	76-122%			
Xylenes, total	3160	37.1	74.2	ug/kg dr	y 50	2970	ND	106	78-124%			
Naphthalene	901	49.4	98.9	ug/kg dr	y 50	989	ND	91	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 98%	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			100 %	80-	-120 %		"					
4-Bromofluorobenzene (Surr)			98 %	79-	-120 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0626 - Total Solids (Dry	Weigh	t) - 2022					Soi					
Duplicate (23I0626-DUP1)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-01)											
% Solids	94.0	1.00	1.00	%	1		92.1			2	10%	
Duplicate (23I0626-DUP2)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-02)											
% Solids	89.5	1.00	1.00	%	1		90.1			0.6	10%	
Duplicate (23I0626-DUP3)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-03)											
% Solids	93.7	1.00	1.00	%	1		91.6			2	10%	
Duplicate (23I0626-DUP4)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-04)											
% Solids	89.5	1.00	1.00	%	1		89.1			0.4	10%	
Duplicate (23I0626-DUP5)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-05)											
% Solids	89.9	1.00	1.00	%	1		90.5			0.7	10%	
Duplicate (23I0626-DUP6)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-06)											
% Solids	90.4	1.00	1.00	%	1		92.2			2	10%	
Duplicate (23I0626-DUP7)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-07)											
% Solids	88.2	1.00	1.00	%	1		87.0			1	10%	
Duplicate (23I0626-DUP8)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21	/23 07:45					
QC Source Sample: Non-SDG (A3I12	204-08)											
% Solids	88.3	1.00	1.00	%	1		89.5			1	10%	

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106,37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

QUALITY CONTROL (QC) SAMPLE RESULTS

	Percent Dry Weight											
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits		RPD Limit	Notes
Batch 23l0626 - Total Solids (Dry Weigh	t) - 2022					Soil					
Duplicate (23I0626-DUP9)			Prepared	: 09/20/23	10:53 Anal	yzed: 09/21/	/23 07:45					
QC Source Sample: Non-SDG (A	3I1204-09)											
% Solids	87.0	1.00	1.00	%	1		86.4			0.6	10%	

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

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0661							
A3I1236-05	Soil	NWTPH-Dx	09/19/23 15:20	09/21/23 09:06	10.31g/5mL	10g/5mL	0.97
A3I1236-06	Soil	NWTPH-Dx	09/19/23 15:25	09/21/23 09:06	10.3g/5mL	10g/5mL	0.97
Batch: 23I0784							
A3I1236-01RE1	Soil	NWTPH-Dx	09/19/23 14:27	09/25/23 10:23	10.16g/5mL	10g/5mL	0.98
A3I1236-02RE1	Soil	NWTPH-Dx	09/19/23 14:35	09/25/23 10:23	10.12g/5mL	10g/5mL	0.99
A3I1236-03RE1	Soil	NWTPH-Dx	09/19/23 14:42	09/25/23 10:23	10.18g/5mL	10g/5mL	0.98
A3I1236-04RE1	Soil	NWTPH-Dx	09/19/23 14:48	09/25/23 10:23	10.28g/5mL	10g/5mL	0.97
A3I1236-07RE1	Soil	NWTPH-Dx	09/19/23 16:03	09/25/23 10:23	10.19g/5mL	10g/5mL	0.98
A3I1236-08RE1	Soil	NWTPH-Dx	09/19/23 16:13	09/25/23 10:23	10.88g/5mL	10g/5mL	0.92
A3I1236-09RE1	Soil	NWTPH-Dx	09/19/23 16:24	09/25/23 10:23	10.21g/5mL	10g/5mL	0.98
A3I1236-10RE1	Soil	NWTPH-Dx	09/19/23 16:38	09/25/23 10:23	10.46g/5mL	10g/5mL	0.96
A3I1236-11RE1	Soil	NWTPH-Dx	09/19/23 16:45	09/25/23 10:23	10.04g/5mL	10g/5mL	1.00

	Gas	soline Range Hydrocarb	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0624							
A3I1236-01	Soil	NWTPH-Gx (MS)	09/19/23 14:27	09/19/23 14:27	7.43g/5mL	5g/5mL	0.67
A3I1236-02	Soil	NWTPH-Gx (MS)	09/19/23 14:35	09/19/23 14:35	6.9g/5mL	5g/5mL	0.73
A3I1236-03	Soil	NWTPH-Gx (MS)	09/19/23 14:42	09/19/23 14:42	7.47g/5mL	5g/5mL	0.67
A3I1236-04	Soil	NWTPH-Gx (MS)	09/19/23 14:48	09/19/23 14:48	6.08g/5mL	5g/5mL	0.82
A3I1236-05	Soil	NWTPH-Gx (MS)	09/19/23 15:20	09/19/23 15:20	6.61g/5mL	5g/5mL	0.76
A3I1236-06	Soil	NWTPH-Gx (MS)	09/19/23 15:25	09/19/23 15:25	5.54g/5mL	5g/5mL	0.90
A3I1236-07	Soil	NWTPH-Gx (MS)	09/19/23 16:03	09/19/23 16:03	6.76g/5mL	5g/5mL	0.74
A3I1236-08	Soil	NWTPH-Gx (MS)	09/19/23 16:13	09/19/23 16:13	6.72g/5mL	5g/5mL	0.74
A3I1236-09	Soil	NWTPH-Gx (MS)	09/19/23 16:24	09/19/23 16:24	5.47g/5mL	5g/5mL	0.91
A3I1236-10	Soil	NWTPH-Gx (MS)	09/19/23 16:38	09/19/23 16:38	6.16g/5mL	5g/5mL	0.81
A3I1236-11	Soil	NWTPH-Gx (MS)	09/19/23 16:45	09/19/23 16:45	7.05g/5mL	5g/5mL	0.71

	BTEX+N Compounds by EPA 8260D											
<u>Prep: EPA 5035A</u>					Sample Initial/Final	Default Initial/Final	RL Prep Factor					
Lab Number Batch: 23I0624	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor					
A3I1236-01	Soil	5035A/8260D	09/19/23 14:27	09/19/23 14:27	7.43g/5mL	5g/5mL	0.67					

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

SAMPLE PREPARATION INFORMATION

BTEX+N Compounds by EPA 8260D											
Prep: EPA 5035A					Sample	Default	RL Prep				
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor				
A3I1236-02	Soil	5035A/8260D	09/19/23 14:35	09/19/23 14:35	6.9g/5mL	5g/5mL	0.73				
A3I1236-03	Soil	5035A/8260D	09/19/23 14:42	09/19/23 14:42	7.47g/5mL	5g/5mL	0.67				
A3I1236-04	Soil	5035A/8260D	09/19/23 14:48	09/19/23 14:48	6.08g/5mL	5g/5mL	0.82				
A3I1236-05	Soil	5035A/8260D	09/19/23 15:20	09/19/23 15:20	6.61g/5mL	5g/5mL	0.76				
A3I1236-06	Soil	5035A/8260D	09/19/23 15:25	09/19/23 15:25	5.54g/5mL	5g/5mL	0.90				
A3I1236-07	Soil	5035A/8260D	09/19/23 16:03	09/19/23 16:03	6.76g/5mL	5g/5mL	0.74				
A3I1236-08	Soil	5035A/8260D	09/19/23 16:13	09/19/23 16:13	6.72g/5mL	5g/5mL	0.74				
A3I1236-09	Soil	5035A/8260D	09/19/23 16:24	09/19/23 16:24	5.47g/5mL	5g/5mL	0.91				
A3I1236-10	Soil	5035A/8260D	09/19/23 16:38	09/19/23 16:38	6.16g/5mL	5g/5mL	0.81				
A3I1236-11	Soil	5035A/8260D	09/19/23 16:45	09/19/23 16:45	7.05g/5mL	5g/5mL	0.71				

Prep: Total Solids (D	ry Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0626							
A3I1236-01	Soil	EPA 8000D	09/19/23 14:27	09/20/23 10:53			NA
A3I1236-02	Soil	EPA 8000D	09/19/23 14:35	09/20/23 10:53			NA
A3I1236-03	Soil	EPA 8000D	09/19/23 14:42	09/20/23 10:53			NA
A3I1236-04	Soil	EPA 8000D	09/19/23 14:48	09/20/23 10:53			NA
A3I1236-05	Soil	EPA 8000D	09/19/23 15:20	09/20/23 10:53			NA
A3I1236-06	Soil	EPA 8000D	09/19/23 15:25	09/20/23 10:53			NA
A3I1236-07	Soil	EPA 8000D	09/19/23 16:03	09/20/23 10:53			NA
A3I1236-08	Soil	EPA 8000D	09/19/23 16:13	09/20/23 10:53			NA
A3I1236-09	Soil	EPA 8000D	09/19/23 16:24	09/20/23 10:53			NA
A3I1236-10	Soil	EPA 8000D	09/19/23 16:38	09/20/23 10:53			NA
A3I1236-11	Soil	EPA 8000D	09/19/23 16:45	09/20/23 10:53			NA

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311236 - 11 22 23 1603

QUALIFIER DEFINITIONS

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

Apex Laboratories

- F-03 The result for this hydrocarbon range is elevated due to the presence of individual analyte peaks in the quantitation range that are not representative of the fuel pattern reported.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- F-15 Results for diesel are estimated due to overlap from the reported oil result.
- **F-16** Results for oil are estimated due to overlap from the reported diesel result.
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311236 - 11 22 23 1603

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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1236 - 11 22 23 1603

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311236 - 11 22 23 1603

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street

Portland, OR 97232

Project Number: 0106 37 0

Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

3140 NE Broadway Street Portland, OR 97232

Project: Redland

Project Number: 0106.37.001 Project Manager: David Weatherby

Report ID:

A3I1236 - 11 22 23 1603

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1236 - 11 22 23 1603

	APEX LABS COOLER RECEIPT FORM
Client: MFA	Element WO#: A3 T 1736
Project/Project #:	Nedlands / 0106-37.001
Delivery Info:	9/23@1740 By: 47
	lient ESS FedEx UPS Swift Senvoy SDS Other
	te/time inspected: 9/19/23 @ 1740 By: 4
Chain of Custody included	17
Signed/dated by client?	Yes No
Signed/dated by Apex?	Yes No
Condition (In/Out): Cooler out of temp? (Y/N) Green dots applied to out of Out of temperature sample Sample Inspection: Dat	Possible reason why: of temperature samples? Yes No es form initiated? Yes No e/time inspected: 9/1973 @ 18:59 By:
Bottle labels/COCs agree?	Yes <u>X</u> No Comments:
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Comments	
Water samples: pH checked	d: YesNoNA_XpH appropriate? YesNoNA_X Strip ID: A23A348
Additional information:	

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

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

Thursday, December 14, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3I1409 - Redland - 0106.37.001

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 A3I1409, which was received by the laboratory on 9/25/2023 at 3:20:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 0.7 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
VL-PIPE-SL1	A3I1409-01	Soil	09/25/23 14:30	09/25/23 15:20

Apex Laboratories

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

ANALYTICAL SAMPLE RESULTS

	Die	sel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-PIPE-SL1 (A3I1409-01)				Matrix: Soil		Batch:	2310978	
Diesel	318	12.9	25.7	mg/kg dry	1	09/29/23 22:05	NWTPH-Dx	F-11
Oil	ND	25.7	51.4	mg/kg dry	1	09/29/23 22:05	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 77 %	Limits: 50-150 %	5 I	09/29/23 22:05	NWTPH-Dx	

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232 Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

ANALYTICAL SAMPLE RESULTS

Redland

Gasol	ine Range Hy	drocarbons	(Benzene tl	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
VL-PIPE-SL1 (A3I1409-01)				Matrix: Soil		Batch	: 2310885	V-15
Gasoline Range Organics	ND	4.05	8.10	mg/kg dry	50	09/27/23 14:47	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Reco	very: 85 %	Limits: 50-150 %	6 I	09/27/23 14:47	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			105 %	50-150 %	6 I	09/27/23 14:47	NWTPH-Gx (MS)	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-PIPE-SL1 (A3I1409-01)				Matrix: Soil		Batch:	2310885	V-15
Benzene	ND	8.10	16.2	ug/kg dry	50	09/27/23 14:47	5035A/8260D	
Toluene	ND	40.5	81.0	ug/kg dry	50	09/27/23 14:47	5035A/8260D	
Ethylbenzene	ND	20.3	40.5	ug/kg dry	50	09/27/23 14:47	5035A/8260D	
Xylenes, total	ND	60.8	122	ug/kg dry	50	09/27/23 14:47	5035A/8260D	
Naphthalene	ND	81.0	162	ug/kg dry	50	09/27/23 14:47	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 108 %	Limits: 80-120 %	5 1	09/27/23 14:47	5035A/8260D	
Toluene-d8 (Surr)			113 %	80-120 %	<i>I</i>	09/27/23 14:47	5035A/8260D	
4-Bromofluorobenzene (Surr)			100 %	79-120 %	5 1	09/27/23 14:47	5035A/8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
VL-PIPE-SL1 (A3I1409-01)				Matrix: So	oil	Batch:	2310821	
% Solids	76.3	1.00	1.00	%	1	09/27/23 08:15	EPA 8000D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	r Oil Hyd	rocarbon	s by NWT	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0978 - EPA 3546 (Fi	uels)						So	il				
Blank (23I0978-BLK1)			Prepared	1: 09/29/23 (6:08 Anal	yzed: 09/29/	23 20:24					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	et 1							
Oil	ND	20.0	40.0	mg/kg w	et 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 88 %	Limits: 50	-150 %	Dilu	tion: 1x					
LCS (23I0978-BS1)			Prepared	1: 09/29/23 (6:08 Anal	yzed: 09/29/	23 20:44					
NWTPH-Dx												
Diesel	117	10.0	20.0	mg/kg w	et 1	125		94	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 92 %	Limits: 50	-150 %	Dilu	tion: lx					
Duplicate (23I0978-DUP1)			Prepared	1: 09/29/23 (06:08 Anal	yzed: 09/29/	23 21:25					
QC Source Sample: Non-SDG (A	311266-27)											
Diesel	ND	13.2	26.4	mg/kg dı	y 1		ND				30%	
	ND	26.4	52.7	mg/kg dı	v 1		ND				30%	
Oil	ND	20.1	02.,	0 0	, -							

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	lydrocarbo	ons (Ben	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0885 - EPA 5035A							Soi	il				
Blank (23I0885-BLK1)			Prepared	d: 09/27/23	09:35 Ana	lyzed: 09/27	/23 14:21					
NWTPH-Gx (MS) Gasoline Range Organics	ND	2.50	5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 95 % 99 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
LCS (2310885-BS2)			Prepared	1: 09/27/23	09:35 Ana	lyzed: 09/27	/23 13:56					
NWTPH-Gx (MS) Gasoline Range Organics	25.4	2.50	5.00	mg/kg v	vet 50	25.0		102	80-120%			
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	98 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					
Duplicate (23I0885-DUP1)			Prepared	1: 09/25/23	12:20 Ana	lyzed: 09/27	/23 19:51					
QC Source Sample: Non-SDG (A3	BI1473-01)											
Gasoline Range Organics	234	3.31	6.61	mg/kg d	dry 50		258			10	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Recov	very: 102 % 96 %	Limits: 5	0-150 % 0-150 %	Dilı	ution: 1x					_

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3I1409 - 12 14 23 1555

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23I0885 - EPA 5035A							So	il				
Blank (23I0885-BLK1)			Prepared	1: 09/27/23 0	9:35 Anal	yzed: 09/27	7/23 14:21					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	t 50							
Toluene	ND	25.0	50.0	ug/kg we	t 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	t 50							
Naphthalene	ND	50.0	100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 111 %	Limits: 80-	120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			102 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			107 %	79-	120 %		"					
LCS (23I0885-BS1)			Prepared	d: 09/27/23 0	9:35 Anal	yzed: 09/27	7/23 13:25					
5035A/8260D												
Benzene	1060	5.00	10.0	ug/kg we	t 50	1000		106	80-120%			
Toluene	984	25.0	50.0	ug/kg we	t 50	1000		98	80-120%			
Ethylbenzene	1020	12.5	25.0	ug/kg we	t 50	1000		102	80-120%			
Xylenes, total	3150	37.5	75.0	ug/kg we	t 50	3000		105	80-120%			
Naphthalene	1070	50.0	100	ug/kg we	t 50	1000		107	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 112 %	Limits: 80-	120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			103 %	79-	120 %		"					
Duplicate (23I0885-DUP1)			Prepared	d: 09/25/23 1	2:20 Anal	yzed: 09/27	7/23 19:51					
QC Source Sample: Non-SDG (A3	I1473-01)											
Benzene	ND	6.61	13.2	ug/kg dry	50		ND				30%	
Toluene	ND	33.1	66.1	ug/kg dry	50		ND				30%	
Ethylbenzene	107	16.5	33.1	ug/kg dry	50		112			4	30%	
Xylenes, total	66.1	49.6	99.2	ug/kg dry	50		69.4			5	30%	
Naphthalene	3330	66.1	132	ug/kg dry	50		3540			6	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recove	ery: 131 %	Limits: 80-	120 %	Dilt	ution: 1x					S-06
Toluene-d8 (Surr)			96 %	80-	120 %		"					
			107 %	70	120 %		"					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D Detection Reporting Spike Source % REC **RPD** Analyte Result Limit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 23I0885 - EPA 5035A Soil Matrix Spike (23I0885-MS1) Prepared: 09/19/23 13:30 Analyzed: 09/27/23 16:54 QC Source Sample: Non-SDG (A3I1265-02) 5035A/8260D 5.08 1110 10.2 1020 Benzene ug/kg dry 50 ND 109 77-121% Toluene 1040 25.4 50.8 ug/kg dry 50 1020 ND 102 77-121% Ethylbenzene 1080 12.7 25.4 1020 76-122% ug/kg dry 50 ND 106 Xylenes, total 3340 38.1 76.2 ug/kg dry 50 3060 ND 109 78-124% Naphthalene 1020 50.8 102 1020 ND 101 62-129% ug/kg dry 50 Surr: 1,4-Difluorobenzene (Surr) 106 % Limits: 80-120 % Recovery: Dilution: 1x Toluene-d8 (Surr) 100 % 80-120 % 4-Bromofluorobenzene (Surr) 94 % 79-120 %

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Weig	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23l0821 - Total Solids (l	Dry Weigh	t) - 2022					Soil	<u> </u>				
Duplicate (23I0821-DUP1)			Prepared	: 09/26/23	09:18 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.	311420-01)											
% Solids	81.9	1.00	1.00	%	1		81.6			0.3	10%	
Duplicate (23I0821-DUP2)			Prepared	: 09/26/23	09:18 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.	3 <u>I1420-02)</u>											
% Solids	72.5	1.00	1.00	%	1		73.5			1	10%	
Duplicate (23I0821-DUP3)			Prepared	: 09/26/23	09:18 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.	<u>3I1420-03)</u>											
% Solids	76.0	1.00	1.00	%	1		76.3			0.4	10%	
Duplicate (23I0821-DUP4)			Prepared	: 09/26/23	19:10 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.	3 <u>11470-01)</u>											
% Solids	81.8	1.00	1.00	%	1		83.1			2	10%	
Duplicate (23I0821-DUP5)			Prepared	: 09/26/23	19:10 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.	311473-01)											
% Solids	74.2	1.00	1.00	%	1		74.2			0.003	10%	
Duplicate (23I0821-DUP6)			Prepared	: 09/26/23	19:10 Anal	yzed: 09/27/	23 08:15					
QC Source Sample: Non-SDG (A.												
% Solids	94.7	1.00	1.00	%	1		94.4			0.3	10%	

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

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street Prortland, OR 97232 Pr

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

SAMPLE PREPARATION INFORMATION

		Diesel and	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0978							
A3I1409-01	Soil	NWTPH-Dx	09/25/23 14:30	09/29/23 06:08	10.19g/5mL	10g/5mL	0.98
	Gas	soline Range Hydrocarl	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0885			*	*			
A3I1409-01	Soil	NWTPH-Gx (MS)	09/25/23 14:30	09/25/23 16:20	5g/5mL	5g/5mL	1.00
		BTEX	K+N Compounds by	EPA 8260D			
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23I0885							
A3I1409-01	Soil	5035A/8260D	09/25/23 14:30	09/25/23 16:20	5g/5mL	5g/5mL	1.00
			Percent Dry We	ight			
	y Weight) - 2022	<u> </u>			Sample	Default	RL Prep
Prep: Total Solids (Dr					Initial/Final	Initial/Final	Factor
Prep: Total Solids (Dr Lab Number	Matrix	Method	Sampled	Prepared	IIIIIIai/Tillai	minal/Final	ractor
-	Matrix	Method	Sampled	Prepared	mitta/i mai	Initial/Final	ractor

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311409 - 12 14 23 1555

QUALIFIER DEFINITIONS

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

Apex Laboratories

F-11 The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.

J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.

S-06 Surrogate recovery is outside of established control limits.

V-15 Sample aliquot was subsampled from the sample container. The subsampled aliquot was preserved in the laboratory within 48 hours of sampling.

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311409 - 12 14 23 1555

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.

<u>Detection Limits:</u> 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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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311409 - 12 14 23 1555

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA311409 - 12 14 23 1555

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

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Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Marenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3I1409 - 12 14 23 1555

	AI EX LABS COOLER	R RECEIPT FORM	
Client: Maul 70	ste Alongi	Element WO#: A3 I I UOY	
Project/Project #: Red	land	0106.37,007	
Delivery Info: Date/time received:	7/23@ 1520 By:_	EST	
Delivered by: ApexClien	tXESSFedEx_UPSRac	dioMorganSDSEvergreenO	
Cooler Inspection Date	time inspected: 9/25/23	@ 1520 By: EST	
Chain of Custody included?	Yes No		
Signed/dated by client?	Yes X No		
Out of temperature samples Sample Inspection: Date All samples intact? Yes	Possible reason why: f temperature samples? Yes/No form initiated? Yes/No //time inspected: 9/25/73 @ No Comments:	@16:04 By: ACU	
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are overfilled	headspace? Yes No	_ NA <u> </u>	
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Do VOA vials have visible Comments_ Water samples: pH checked	headspace? Yes No l: Yes No NA pH app		
Do VOA vials have visible Comments Water samples: pH checked Comments:	headspace? Yes No l: Yes No NA pH app		

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Philip Nerenberg, Lab Director

Philip Maenberg



Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3J1887 - Redland - 0106.37.001

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 A3J1887, which was received by the laboratory on 10/31/2023 at 6:00:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 1.6 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	ORMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RS-B10-SS-15.0	A3J1887-01	Soil	10/31/23 10:20	10/31/23 18:00
RS-B11-SS-16.0	A3J1887-02	Soil	10/31/23 11:27	10/31/23 18:00
RS-B12-SS-12.5	A3J1887-03	Soil	10/31/23 12:40	10/31/23 18:00
RS-B13-SS-12.5	A3J1887-04	Soil	10/31/23 13:30	10/31/23 18:00
RS-B14-SS-12.0	A3J1887-05	Soil	10/31/23 14:54	10/31/23 18:00
RS-B15-SS-8.0	A3J1887-06	Soil	10/31/23 15:45	10/31/23 18:00
RS-B16-SS-7.0	A3J1887-07	Soil	10/31/23 16:34	10/31/23 18:00
RSTP1-SS-8.0	A3J1887-08	Soil	10/31/23 13:55	10/31/23 18:00
RSTP1-SS-10.0	A3J1887-09	Soil	10/31/23 13:56	10/31/23 18:00
RSTP1-GW-9.5	A3J1887-10	Water	10/31/23 14:25	10/31/23 18:00

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or Oi	l Hydrocarl	ons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-B10-SS-15.0 (A3J1887-01RE1)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	11.5	23.1	mg/kg dry	1	11/07/23 09:18	NWTPH-Dx	
Oil	244	23.1	46.2	mg/kg dry	1	11/07/23 09:18	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 87%	Limits: 50-150 %	1	11/07/23 09:18	NWTPH-Dx	
RS-B11-SS-16.0 (A3J1887-02)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	13.6	27.1	mg/kg dry	1	11/07/23 00:01	NWTPH-Dx	
Oil	ND	27.1	54.2	mg/kg dry	1	11/07/23 00:01	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 97%	Limits: 50-150 %	1	11/07/23 00:01	NWTPH-Dx	
RS-B12-SS-12.5 (A3J1887-03RE1)				Matrix: Soil		Batch:	23K0247	
Diesel	ND	16.5	32.9	mg/kg dry	1	11/07/23 21:42	NWTPH-Dx	
Oil	ND	32.9	65.9	mg/kg dry	1	11/07/23 21:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 65 %	Limits: 50-150 %	1	11/07/23 21:42	NWTPH-Dx	
RS-B13-SS-12.5 (A3J1887-04)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	15.9	31.8	mg/kg dry	1	11/07/23 00:41	NWTPH-Dx	
Oil	ND	31.8	63.6	mg/kg dry	1	11/07/23 00:41	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 86 %	Limits: 50-150 %	1	11/07/23 00:41	NWTPH-Dx	
RS-B14-SS-12.0 (A3J1887-05)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	15.9	31.8	mg/kg dry	1	11/07/23 01:02	NWTPH-Dx	
Oil	ND	31.8	63.7	mg/kg dry	1	11/07/23 01:02	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 89 %	Limits: 50-150 %	1	11/07/23 01:02	NWTPH-Dx	
RS-B15-SS-8.0 (A3J1887-06)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	14.0	28.1	mg/kg dry	1	11/07/23 01:22	NWTPH-Dx	
Oil	ND	28.1	56.1	mg/kg dry	1	11/07/23 01:22	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 95 %	Limits: 50-150 %	1	11/07/23 01:22	NWTPH-Dx	
RS-B16-SS-7.0 (A3J1887-07)				Matrix: Soil		Batch:	23K0196	
Diesel	60.8	12.7	25.4	mg/kg dry	1	11/07/23 01:42	NWTPH-Dx	F-13
Oil	ND	25.4	50.7	mg/kg dry	1	11/07/23 01:42	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recove	ery: 98 %	Limits: 50-150 %	1	11/07/23 01:42	NWTPH-Dx	

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RSTP1-SS-8.0 (A3J1887-08)				Matrix: Soil		Batch:	23K0196	
Diesel	ND	12.2	24.4	mg/kg dry	1	11/07/23 03:24	NWTPH-Dx	
Oil	ND	24.4	48.9	mg/kg dry	1	11/07/23 03:24	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 91 %	Limits: 50-150 %	1	11/07/23 03:24	NWTPH-Dx	
RSTP1-SS-10.0 (A3J1887-09)				Matrix: Soil		Batch: 23K0196		
Diesel	ND	14.0	28.0	mg/kg dry	1	11/07/23 03:44	NWTPH-Dx	
Oil	ND	28.0	56.1	mg/kg dry	1	11/07/23 03:44	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	1	11/07/23 03:44	NWTPH-Dx	
RSTP1-GW-9.5 (A3J1887-10RE1)	_			Matrix: Wate	er	Batch:	23K0132	
Diesel	ND	0.111	0.222	mg/L	1	11/04/23 02:00	NWTPH-Dx	
Oil	ND	0.222	0.444	mg/L	1	11/04/23 02:00	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 85 %	Limits: 50-150 %	1	11/04/23 02:00	NWTPH-Dx	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Note
RS-B10-SS-15.0 (A3J1887-01)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	2.28	4.57	mg/kg dry	50	11/01/23 15:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 107 %	Limits: 50-150 %	6 <i>1</i>	11/01/23 15:25	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	6 I	11/01/23 15:25	NWTPH-Gx (MS)	
RS-B11-SS-16.0 (A3J1887-02)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	3.49	6.99	mg/kg dry	50	11/01/23 15:51	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 109 %	Limits: 50-150 %	6 I	11/01/23 15:51	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	6 I	11/01/23 15:51	NWTPH-Gx (MS)	
RS-B12-SS-12.5 (A3J1887-03)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	6.49	13.0	mg/kg dry	50	11/01/23 16:17	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 107 %	Limits: 50-150 %	6 1	11/01/23 16:17	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	6 1	11/01/23 16:17	NWTPH-Gx (MS)	
RS-B13-SS-12.5 (A3J1887-04)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	4.72	9.44	mg/kg dry	50	11/01/23 16:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 108 %	Limits: 50-150 %	6 I	11/01/23 16:43	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	6 I	11/01/23 16:43	NWTPH-Gx (MS)	
RS-B14-SS-12.0 (A3J1887-05)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	4.85	9.69	mg/kg dry	50	11/01/23 17:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 109 %	Limits: 50-150 %	6 I	11/01/23 17:09	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	6 1	11/01/23 17:09	NWTPH-Gx (MS)	
RS-B15-SS-8.0 (A3J1887-06)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	143	3.68	7.37	mg/kg dry	50	11/01/23 20:09	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 139 %	Limits: 50-150 %	6 I	11/01/23 20:09	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			101 %	50-150 %	6 I	11/01/23 20:09	NWTPH-Gx (MS)	
RS-B16-SS-7.0 (A3J1887-07)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	190	2.99	5.97	mg/kg dry	50	11/01/23 21:01	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 143 %	Limits: 50-150 %	6 I	11/01/23 21:01	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	6 <i>1</i>	11/01/23 21:01	NWTPH-Gx (MS)	

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (E	Benzene th	rough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RSTP1-SS-8.0 (A3J1887-08)				Matrix: Soil		Batch:	23K0024	
Gasoline Range Organics	ND	3.00	6.01	mg/kg dry	50	11/01/23 17:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	·: 106 %	Limits: 50-150 %	1	11/01/23 17:34	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			99 %	50-150 %	1	11/01/23 17:34	NWTPH-Gx (MS)	
RSTP1-SS-10.0 (A3J1887-09)				Matrix: Soil		Batch: 23K0024		
Gasoline Range Organics	ND	3.50	7.00	mg/kg dry	50	11/01/23 18:00	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	·: 106 %	Limits: 50-150 %	1	11/01/23 18:00	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			100 %	50-150 %	1	11/01/23 18:00	NWTPH-Gx (MS)	
RSTP1-GW-9.5 (A3J1887-10)	-	-		Matrix: Wate	er	Batch:	23K0065	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	11/02/23 17:34	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 96 %	Limits: 50-150 %	1	11/02/23 17:34	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			93 %	50-150 %	1	11/02/23 17:34	NWTPH-Gx (MS)	

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Merenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-B10-SS-15.0 (A3J1887-01)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	4.57	9.14	ug/kg dry	50	11/01/23 15:25	5035A/8260D	
Toluene	ND	22.8	45.7	ug/kg dry	50	11/01/23 15:25	5035A/8260D	
Ethylbenzene	ND	11.4	22.8	ug/kg dry	50	11/01/23 15:25	5035A/8260D	
Xylenes, total	ND	34.3	68.5	ug/kg dry	50	11/01/23 15:25	5035A/8260D	
Naphthalene	ND	91.4	183	ug/kg dry	50	11/01/23 15:25	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-120 %	1	11/01/23 15:25	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	11/01/23 15:25	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	11/01/23 15:25	5035A/8260D	
RS-B11-SS-16.0 (A3J1887-02)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	6.99	14.0	ug/kg dry	50	11/01/23 15:51	5035A/8260D	
Toluene	ND	34.9	69.9	ug/kg dry	50	11/01/23 15:51	5035A/8260D	
Ethylbenzene	ND	17.5	34.9	ug/kg dry	50	11/01/23 15:51	5035A/8260D	
Xylenes, total	ND	52.4	105	ug/kg dry	50	11/01/23 15:51	5035A/8260D	
Naphthalene	ND	140	279	ug/kg dry	50	11/01/23 15:51	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 100 %	Limits: 80-120 %	1	11/01/23 15:51	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	11/01/23 15:51	5035A/8260D	
4-Bromofluorobenzene (Surr)			102 %	79-120 %	1	11/01/23 15:51	5035A/8260D	
RS-B12-SS-12.5 (A3J1887-03)				Matrix: Soil		Batch: 23K0024		
Benzene	ND	13.0	26.0	ug/kg dry	50	11/01/23 16:17	5035A/8260D	
Toluene	ND	64.9	130	ug/kg dry	50	11/01/23 16:17	5035A/8260D	
Ethylbenzene	ND	32.4	64.9	ug/kg dry	50	11/01/23 16:17	5035A/8260D	
Xylenes, total	ND	97.3	195	ug/kg dry	50	11/01/23 16:17	5035A/8260D	
Naphthalene	ND	260	519	ug/kg dry	50	11/01/23 16:17	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recov	ery: 101 %	Limits: 80-120 %	1	11/01/23 16:17	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	11/01/23 16:17	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	11/01/23 16:17	5035A/8260D	
RS-B13-SS-12.5 (A3J1887-04)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	9.44	18.9	ug/kg dry	50	11/01/23 16:43	5035A/8260D	
Toluene	ND	47.2	94.4	ug/kg dry	50	11/01/23 16:43	5035A/8260D	
Ethylbenzene	ND	23.6	47.2	ug/kg dry	50	11/01/23 16:43	5035A/8260D	
Xylenes, total	ND	70.8	142	ug/kg dry	50	11/01/23 16:43	5035A/8260D	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

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

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
RS-B13-SS-12.5 (A3J1887-04)				Matrix: Soil		Batch:	23K0024	
Naphthalene	ND	189	378	ug/kg dry	50	11/01/23 16:43	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 101 %	Limits: 80-120 %	1	11/01/23 16:43	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	11/01/23 16:43	5035A/8260D	
4-Bromofluorobenzene (Surr)			102 %	79-120 %	1	11/01/23 16:43	5035A/8260D	
RS-B14-SS-12.0 (A3J1887-05)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	9.69	19.4	ug/kg dry	50	11/01/23 17:09	5035A/8260D	
Toluene	ND	48.5	96.9	ug/kg dry	50	11/01/23 17:09	5035A/8260D	
Ethylbenzene	ND	24.2	48.5	ug/kg dry	50	11/01/23 17:09	5035A/8260D	
Xylenes, total	ND	72.7	145	ug/kg dry	50	11/01/23 17:09	5035A/8260D	
Naphthalene	ND	194	388	ug/kg dry	50	11/01/23 17:09	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 101 %	Limits: 80-120 %	1	11/01/23 17:09	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	11/01/23 17:09	5035A/8260D	
4-Bromofluorobenzene (Surr)			102 %	79-120 %	1	11/01/23 17:09	5035A/8260D	
RS-B15-SS-8.0 (A3J1887-06)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	7.37	14.7	ug/kg dry	50	11/01/23 20:09	5035A/8260D	
Toluene	ND	36.8	73.7	ug/kg dry	50	11/01/23 20:09	5035A/8260D	
Ethylbenzene	ND	18.4	36.8	ug/kg dry	50	11/01/23 20:09	5035A/8260D	
Xylenes, total	ND	55.3	111	ug/kg dry	50	11/01/23 20:09	5035A/8260D	
Naphthalene	ND	147	295	ug/kg dry	50	11/01/23 20:09	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 102 %	Limits: 80-120 %	1	11/01/23 20:09	5035A/8260D	
Toluene-d8 (Surr)			85 %	80-120 %	1	11/01/23 20:09	5035A/8260D	
4-Bromofluorobenzene (Surr)			108 %	79-120 %	1	11/01/23 20:09	5035A/8260D	
RS-B16-SS-7.0 (A3J1887-07)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	5.97	11.9	ug/kg dry	50	11/01/23 21:01	5035A/8260D	
Toluene	ND	29.9	59.7	ug/kg dry	50	11/01/23 21:01	5035A/8260D	
Ethylbenzene	ND	14.9	29.9	ug/kg dry	50	11/01/23 21:01	5035A/8260D	
Xylenes, total	ND	44.8	89.6	ug/kg dry	50	11/01/23 21:01	5035A/8260D	
Naphthalene	ND	119	239	ug/kg dry	50	11/01/23 21:01	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80-120 %	1	11/01/23 21:01	5035A/8260D	
Toluene-d8 (Surr)			81 %	80-120 %	I	11/01/23 21:01	5035A/8260D	
4-Bromofluorobenzene (Surr)			107 %	79-120 %	1	11/01/23 21:01	5035A/8260D	

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RSTP1-SS-8.0 (A3J1887-08)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	6.01	12.0	ug/kg dry	50	11/01/23 17:34	5035A/8260D	
Toluene	ND	30.0	60.1	ug/kg dry	50	11/01/23 17:34	5035A/8260D	
Ethylbenzene	ND	15.0	30.0	ug/kg dry	50	11/01/23 17:34	5035A/8260D	
Xylenes, total	ND	45.1	90.1	ug/kg dry	50	11/01/23 17:34	5035A/8260D	
Naphthalene	ND	120	240	ug/kg dry	50	11/01/23 17:34	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 100 %	Limits: 80-120 %	I	11/01/23 17:34	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	11/01/23 17:34	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	11/01/23 17:34	5035A/8260D	
RSTP1-SS-10.0 (A3J1887-09)				Matrix: Soil		Batch:	23K0024	
Benzene	ND	7.00	14.0	ug/kg dry	50	11/01/23 18:00	5035A/8260D	
Toluene	ND	35.0	70.0	ug/kg dry	50	11/01/23 18:00	5035A/8260D	
Ethylbenzene	ND	17.5	35.0	ug/kg dry	50	11/01/23 18:00	5035A/8260D	
Xylenes, total	ND	52.5	105	ug/kg dry	50	11/01/23 18:00	5035A/8260D	
Naphthalene	ND	140	280	ug/kg dry	50	11/01/23 18:00	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 100 %	Limits: 80-120 %	1	11/01/23 18:00	5035A/8260D	
Toluene-d8 (Surr)			96 %	80-120 %	1	11/01/23 18:00	5035A/8260D	
4-Bromofluorobenzene (Surr)			102 %	79-120 %	1	11/01/23 18:00	5035A/8260D	
RSTP1-GW-9.5 (A3J1887-10)				Matrix: Wate	r	Batch:	23K0065	
Benzene	ND	0.100	0.200	ug/L	1	11/02/23 17:34	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	11/02/23 17:34	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/02/23 17:34	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	11/02/23 17:34	EPA 8260D	
Naphthalene	ND	2.50	5.00	ug/L	1	11/02/23 17:34	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80-120 %	1	11/02/23 17:34	EPA 8260D	
Toluene-d8 (Surr)			96 %	80-120 %	1	11/02/23 17:34	EPA 8260D	
4-Bromofluorobenzene (Surr)			105 %	80-120 %	1	11/02/23 17:34	EPA 8260D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

		Convention	al Microbiolo	ogy Paramete	rs			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RSTP1-GW-9.5 (A3J1887-10)				Matrix: Wat	er			
Batch: 23J1234								
E. coli	1550	1.00	1.00	MPN/100 mL	1	11/01/23 18:50	SM 9223 B	

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Maul Foster & Alongi, INC.
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Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight					
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes	
RS-B10-SS-15.0 (A3J1887-01)				Matrix: So	il	Batch:	23K0029		
% Solids	84.3	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B11-SS-16.0 (A3J1887-02)				Matrix: So	il	Batch:	23K0029		
% Solids	72.5	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B12-SS-12.5 (A3J1887-03)				Matrix: So	x: Soil Batch: 23K0029				
% Solids	59.7	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B13-SS-12.5 (A3J1887-04)				Matrix: So	il	Batch:			
% Solids	60.6	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B14-SS-12.0 (A3J1887-05)				Matrix: So	il	Batch:			
% Solids	60.5	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B15-SS-8.0 (A3J1887-06)				Matrix: So	il	Batch:	23K0029		
% Solids	69.6	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RS-B16-SS-7.0 (A3J1887-07)				Matrix: So	il	Batch:			
% Solids	76.5	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		
RSTP1-SS-8.0 (A3J1887-08)				Matrix: Soil			Batch: 23K0029		
% Solids	78.3	1.00	1.00	% 1		11/02/23 07:02	EPA 8000D		
RSTP1-SS-10.0 (A3J1887-09)				Matrix: So	il	Batch:			
% Solids	70.7	1.00	1.00	%	1	11/02/23 07:02	EPA 8000D		

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

		Di	iesel and/d	or Oil Hyd	rocarbor	s by NW	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0132 - EPA 3510C (Fuels/Acid	Ext.)					Wa	ter				
Blank (23K0132-BLK1)			Prepared	d: 11/03/23	05:41 Ana	lyzed: 11/03	/23 21:52					
NWTPH-Dx												
Diesel	ND	0.100	0.200	mg/L	1							
Oil	ND	0.200	0.400	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	very: 83 %	Limits: 50	1-150 %	Dilı	ution: 1x					
LCS (23K0132-BS1)			Prepared	d: 11/03/23	05:41 Ana	lyzed: 11/03	/23 22:13					
NWTPH-Dx												
Diesel	0.964	0.100	0.200	mg/L	1	1.25		77	36-132%			
Surr: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50)-150 %	Dilt	ution: 1x					
LCS Dup (23K0132-BSD1)	Prepared: 11/03/23 05:41 Analyzed: 11/03/23 22:34											Q-1
NWTPH-Dx	<u> </u>	<u> </u>	<u> </u>	<u> </u>			<u></u>				<u></u>	
Diesel	1.02	0.100	0.200	mg/L	1	1.25		82	36-132%	6	30%	
Surr: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50	150 %	Dilt	ution: 1x					
Batch 23K0196 - EPA 3546 (F	uels)						So	il				
Blank (23K0196-BLK1)			Prepare	d: 11/06/23	05:11 Ana	lyzed: 11/06/	/23 19:57					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg w	et 1							
Oil	ND	20.0	40.0	mg/kg w	et 1							
Surr: o-Terphenyl (Surr)		Recov	very: 107 %	Limits: 50)-150 %	Dilt	ution: 1x					
LCS (23K0196-BS1)			Prepared	d: 11/06/23	05:11 Ana	lyzed: 11/06/	/23 20:18					
NWTPH-Dx												
Diesel	124	10.0	20.0	mg/kg w	et 1	125		99	38-132%			
Surr: o-Terphenyl (Surr)		Reco	very: 98 %	Limits: 50	150 %	Dilt	ution: 1x					
Duplicate (23K0196-DUP1)			Prepared	d: 11/06/23	05:11 Ana	lyzed: 11/06/	/23 20:58					
QC Source Sample: Non-SDG (A.	3J1766-01)											
Diesel	ND	11.7	23.5	mg/kg d	ry 1		ND				30%	
Oil	ND	23.5	47.0	mg/kg d	ry 1		ND				30%	

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Philip Neimberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/o	r Oil Hydi	rocarbon	s by NWT	PH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0196 - EPA 3546 (F	uels)						Soi					
Duplicate (23K0196-DUP2)			Prepared	1: 11/06/23 0)5:11 Anal	yzed: 11/07/	/23 04:45					
QC Source Sample: Non-SDG (A3	3K0839-02)											
Diesel	ND	10.3	20.5	mg/kg dr	y 1		ND				30%	
Oil	ND	20.5	41.0	mg/kg dr	y 1		ND				30%	
Oli			Recovery: 99 %									

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232
Projec

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	or Oil Hyd	rocarbor	s by NW	TPH-Dx						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Not	es
Batch 23K0247 - EPA 3546 (F	uels)						Soi	il					
Blank (23K0247-BLK1)			Prepared	d: 11/07/23	06:23 Ana	lyzed: 11/07	7/23 09:44						
NWTPH-Dx													
Diesel	ND	10.0	20.0	mg/kg w	et 1								
Oil	ND	20.0	40.0	mg/kg w	ret 1								
Surr: o-Terphenyl (Surr)		Reco	overy: 99 %	Limits: 50)-150 %	Dil	ution: 1x						
LCS (23K0247-BS1)			Prepared	d: 11/07/23	06:23 Ana	lyzed: 11/07	7/23 10:13						
NWTPH-Dx													
Diesel	132	10.0	20.0	mg/kg w	et 1	125		106	38-132%				
Surr: o-Terphenyl (Surr)		Recon	very: 105 %	Limits: 50)-150 %	Dil	ution: 1x						
Duplicate (23K0247-DUP1)			Prepared	d: 11/07/23	06:23 Ana	lyzed: 11/07	7/23 10:54						
QC Source Sample: Non-SDG (A3	3K0948-01)												
Diesel	77.5	11.3	22.7	mg/kg d	ry 1		74.4			4	30%		F-11
Oil	ND	22.7	45.3	mg/kg d	ry 1		ND				30%		
Surr: o-Terphenyl (Surr)		Reco	overy: 92 %	Limits: 50	0-150 %	Dil	ution: 1x						
Duplicate (23K0247-DUP2)			Prepared	d: 11/07/23	17:31 Ana	lyzed: 11/08	3/23 03:52						
OC Source Sample: Non-SDG (A3	3K1028-02)												
Diesel	12900	102	203	mg/kg d	ry 10		13800			7	30%		
Oil	ND	203	407	mg/kg d	ry 10		ND				30%		
Surr: o-Terphenyl (Surr)		Reco	overy: 84 %	Limits: 50	0-150 %	Dil	ution: 10x					S-05	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

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 23K0024 - EPA 5035A							Soi	1					
Blank (23K0024-BLK1)			Prepared	1: 11/01/23	10:00 Anal	yzed: 11/01/	23 12:25						
NWTPH-Gx (MS)													
Gasoline Range Organics	ND	2.50	5.00	mg/kg w	vet 50								
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 99 %	Limits: 50	9-150 %	Dilu	ution: 1x						
1,4-Difluorobenzene (Sur)			96 %	5(0-150 %		"						
LCS (23K0024-BS2)			Prepared	ł: 11/01/23	10:00 Anal	yzed: 11/01/	23 11:59						
NWTPH-Gx (MS)						-							
Gasoline Range Organics	22.9	2.50	5.00	mg/kg w	vet 50	25.0		92	80-120%				
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 100 %	Limits: 50	9-150 %	Dilu	ution: 1x						
1,4-Difluorobenzene (Sur)			94 %	5(0-150 %		"						
Duplicate (23K0024-DUP1)			Prepared	1: 10/30/23	08:00 Anal	yzed: 11/01/	23 14:08				_	TEM	
QC Source Sample: Non-SDG (A3J18	41-01)												
Gasoline Range Organics	ND	3.01	6.03	mg/kg d	lry 50		ND				30%		
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 108 %	Limits: 50	7-150 %	Dilu	ution: 1x						
1,4-Difluorobenzene (Sur)			98 %	51	0-150 %		"						
Duplicate (23K0024-DUP2)			Prepared	l: 10/31/23	15:45 Anal	yzed: 11/01/	23 20:35						
QC Source Sample: RS-B15-SS-8.0 (A	<u> 43J1887-</u>	<u>06)</u>											
NWTPH-Gx (MS)													
Gasoline Range Organics	146	3.68	7.37	mg/kg d	lry 50		143			2	30%	_	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 134 %	Limits: 50	9-150 %	Dilu	ution: 1x						
1,4-Difluorobenzene (Sur)			100 %	50	0-150 %		"						

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolin	e Range H	ydrocarbo	ons (Benz	zene throu	igh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0065 - EPA 5030C							Wa	ter				
Blank (23K0065-BLK1)			Prepared	d: 11/02/23	09:00 Anal	yzed: 11/02/	/23 12:17					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 95 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			91 %	50	0-150 %		"					
LCS (23K0065-BS2)			Prepared	d: 11/02/23	09:00 Anal	yzed: 11/02	/23 11:55					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.452	0.0500	0.100	mg/L	1	0.500		90	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 97%	Limits: 50	0-150 %	Dilı	ıtion: 1x					
1,4-Difluorobenzene (Sur)			90 %	50	0-150 %		"					
Duplicate (23K0065-DUP1)			Prepared	d: 11/02/23	12:11 Anal	yzed: 11/02/	23 19:49					CONT, V-0
QC Source Sample: Non-SDG (A3	J1779-01RE	<u>1)</u>										
Gasoline Range Organics	40.2	0.500	1.00	mg/L	10		43.4			8	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 109 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			89 %	50)-150 %		"					
Duplicate (23K0065-DUP2)			Prepared	d: 11/02/23	12:11 Anal	yzed: 11/02/	23 17:57					
QC Source Sample: RSTP1-GW-9	.5 (A3J1887	<u>'-10)</u>										
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 93 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			91 %	50	0-150 %		"					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0024 - EPA 5035A							So	il				
Blank (23K0024-BLK1)			Prepared	d: 11/01/23 1	0:00 Anal	yzed: 11/01	/23 12:25					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	et 50							
Toluene	ND	25.0	50.0	ug/kg we	et 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	et 50							
Naphthalene	ND	100	200	ug/kg we	et 50							
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 98 %	Limits: 80-	-120 %	Dili	ution: 1x					_
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			103 %	79-	120 %		"					
LCS (23K0024-BS1)			Prepare	d: 11/01/23 1	0:00 Anal	yzed: 11/01	/23 11:33					
5035A/8260D												
Benzene	948	5.00	10.0	ug/kg we	et 50	1000		95	80-120%			
Toluene	972	25.0	50.0	ug/kg we	et 50	1000		97	80-120%			
Ethylbenzene	1090	12.5	25.0	ug/kg we	et 50	1000		109	80-120%			
Xylenes, total	3030	37.5	75.0	ug/kg we	t 50	3000		101	80-120%			
Naphthalene	847	100	200	ug/kg we	t 50	1000		85	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 96 %	Limits: 80-	-120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			97 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			99 %	79-	-120 %		"					
Duplicate (23K0024-DUP1)			Prepared	d: 10/30/23 0	08:00 Anal	yzed: 11/01	/23 14:08					TEN
QC Source Sample: Non-SDG (A3	J1841-01)											
Benzene	ND	6.03	12.1	ug/kg dr	y 50		ND				30%	
Toluene	ND	30.1	60.3	ug/kg dr	y 50		ND				30%	
Ethylbenzene	ND	15.1	30.1	ug/kg dr	y 50		ND				30%	
Xylenes, total	ND	45.2	90.4	ug/kg dr	y 50		ND				30%	
Naphthalene	ND	121	241	ug/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 99 %	Limits: 80-	-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			94 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			104 %	79-	120 %		"					

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ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232 Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

Redland

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0024 - EPA 5035A							Soi	I				
Ouplicate (23K0024-DUP2)			Prepared	1: 10/31/23 1	5:45 Ana	lyzed: 11/01	/23 20:35					
QC Source Sample: RS-B15-SS-8.0	(A3J1887	<u>-06)</u>										
5035A/8260D												
Benzene	ND	7.37	14.7	ug/kg dr	y 50		ND				30%	
Toluene	ND	36.8	73.7	ug/kg dr	y 50		ND				30%	
Ethylbenzene	ND	18.4	36.8	ug/kg dr			ND				30%	
Xylenes, total	ND	55.3	111	ug/kg dr	y 50		ND				30%	
Naphthalene	ND	147	295	ug/kg dr	y 50		ND				30%	
urr: 1,4-Difluorobenzene (Surr)		Recov	ery: 102 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			86 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			107 %	79-	120 %		"					
Matrix Spike (23K0024-MS1)			Prepared	l: 11/01/23 0	8:50 Ana	lyzed: 11/01/	/23 19:18					V-
QC Source Sample: Non-SDG (A3,	J1631-22)											
5035A/8260D												
Benzene	3110	15.5	31.1	ug/kg dr	y 50	3110	ND	100	77-121%			
Toluene	3120	77.7	155	ug/kg dr	y 50	3110	ND	100	77-121%			
Ethylbenzene	3540	38.9	77.7	ug/kg dr	y 50	3110	ND	114	76-122%			
Xylenes, total	9550	117	233	ug/kg dr	y 50	9330	ND	102	78-124%			
Naphthalene	2340	311	622	ug/kg dr	y 50	3110	ND	75	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 95 %	Limits: 80-	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			94 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			100 %	79-	120 %		"					

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

				•		EPA 8260						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0065 - EPA 5030C							Wa	ter				
Blank (23K0065-BLK1)			Prepared	d: 11/02/23	09:00 Ana	lyzed: 11/02	/23 12:17					
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Xylenes, total	ND	0.750	1.50	ug/L	1							
Naphthalene	ND	2.50	5.00	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80	0-120 %	Dilt	ution: 1x					
Toluene-d8 (Surr)			97 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			104 %	80)-120 %		"					
LCS (23K0065-BS1)			Prepared	d: 11/02/23	09:00 Ana	lyzed: 11/02	/23 11:23					
EPA 8260D												
Benzene	18.0	0.100	0.200	ug/L	1	20.0		90	80-120%			
Toluene	19.6	0.500	1.00	ug/L	1	20.0		98	80-120%			
Ethylbenzene	21.6	0.250	0.500	ug/L	1	20.0		108	80-120%			
Xylenes, total	68.8	0.750	1.50	ug/L	1	60.0		115	80-120%			
Naphthalene	16.2	2.50	5.00	ug/L	1	20.0		81	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 94 %	Limits: 80	0-120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			96 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80)-120 %		"					
Duplicate (23K0065-DUP1)			Prepared	d: 11/02/23	12:11 Anal	lyzed: 11/02	/23 19:49					CONT, V-
QC Source Sample: Non-SDG (A3	J1779-01RI	E1)										
Benzene	2.60	1.00	2.00	ug/L	10		2.40			8	30%	
Toluene	167	5.00	10.0	ug/L	10		166			0.6	30%	
Ethylbenzene	494	2.50	5.00	ug/L	10		499			1	30%	
Xylenes, total	4130	7.50	15.0	ug/L	10		4240			3	30%	
Naphthalene	844	25.0	50.0	ug/L	10		810			4	30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 99 %	Limits: 80	0-120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			92 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			105 %	9/	-120 %		,,					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232

Report ID: Project Manager: David Weatherby A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

Redland

			BTEX+	N Compo	ounds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0065 - EPA 5030C							Wat	er				
Ouplicate (23K0065-DUP2)			Prepared	1: 11/02/23	12:11 Anal	yzed: 11/02/	23 17:57					
QC Source Sample: RSTP1-GW-9	5 (A3J188'	<u>7-10)</u>										
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1		ND				30%	
Toluene	ND	0.500	1.00	ug/L	1		ND				30%	
Ethylbenzene	ND	0.250	0.500	ug/L	1		ND				30%	
Xylenes, total	ND	0.750	1.50	ug/L	1		ND				30%	
Naphthalene	ND	2.50	5.00	ug/L	1		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 98 %	Limits: 80	0-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			96 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			104 %	80	-120 %		"					
Matrix Spike (23K0065-MS1)			Prepared	1: 11/02/23	12:11 Anal	yzed: 11/02/	23 18:42					
QC Source Sample: Non-SDG (A3	K0766-01)											
EPA 8260D												
Benzene	19.2	0.100	0.200	ug/L	1	20.0	ND	96	79-120%			
Toluene	20.2	0.500	1.00	ug/L	1	20.0	ND	101	80-121%			
Ethylbenzene	22.5	0.250	0.500	ug/L	1	20.0	ND	113	79-121%			
Xylenes, total	71.0	0.750	1.50	ug/L	1	60.0	ND	118	79-121%			
Naphthalene	16.0	2.50	5.00	ug/L	1	20.0	ND	80	61-128%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			94 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			97 %	80	-120 %		"					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0029 - Total Solids (Dry Weigl	ht) - 2022					Soil	<u> </u>				
Duplicate (23K0029-DUP1)			Prepared	11/01/23	10:13 Anal	yzed: 11/02/	23 07:02					
QC Source Sample: Non-SDG (A3	J1856-01)											
% Solids	75.4	1.00	1.00	%	1		74.7			1	10%	
Duplicate (23K0029-DUP2)			Prepared	11/01/23	10:13 Anal	yzed: 11/02/	23 07:02					
QC Source Sample: Non-SDG (A3	J1856-02)											
% Solids	75.2	1.00	1.00	%	1		74.9			0.4	10%	
Duplicate (23K0029-DUP3)			Prepared	11/01/23	10:13 Anal	yzed: 11/02/	23 07:02					
QC Source Sample: Non-SDG (A3	J1856-03)											
% Solids	91.1	1.00	1.00	%	1		90.1			1	10%	
Duplicate (23K0029-DUP4)			Prepared	: 11/01/23	10:13 Anal	yzed: 11/02/	23 07:02					
QC Source Sample: Non-SDG (A3	J1856-04)											
% Solids	81.7	1.00	1.00	%	1		82.1			0.5	10%	
Duplicate (23K0029-DUP5)			Prepared	: 11/01/23	19:21 Anal	yzed: 11/02/	23 07:02					
QC Source Sample: Non-SDG (A3	K0768-01)											
% Solids	74.8	1.00	1.00	%	1		74.7			0.1	10%	
Duplicate (23K0029-DUP6)			Prepared	: 11/01/23	19:21 Anal	yzed: 11/02/	/23 07:02					
QC Source Sample: Non-SDG (A3												
% Solids	78.9	1.00	1.00	%	1		81.5			3	10%	

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

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (Fu	uels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0132							
A3J1887-10RE1	Water	NWTPH-Dx	10/31/23 14:25	11/03/23 05:41	900mL/5mL	1000mL/5mL	1.11
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0196							
A3J1887-01RE1	Soil	NWTPH-Dx	10/31/23 10:20	11/06/23 05:11	10.28g/5mL	10g/5mL	0.97
A3J1887-02	Soil	NWTPH-Dx	10/31/23 11:27	11/06/23 05:11	10.17g/5mL	10g/5mL	0.98
A3J1887-04	Soil	NWTPH-Dx	10/31/23 13:30	11/06/23 05:11	10.38g/5mL	10g/5mL	0.96
A3J1887-05	Soil	NWTPH-Dx	10/31/23 14:54	11/06/23 05:11	10.38g/5mL	10g/5mL	0.96
A3J1887-06	Soil	NWTPH-Dx	10/31/23 15:45	11/06/23 05:11	10.25g/5mL	10g/5mL	0.98
A3J1887-07	Soil	NWTPH-Dx	10/31/23 16:34	11/06/23 05:11	10.31g/5mL	10g/5mL	0.97
A3J1887-08	Soil	NWTPH-Dx	10/31/23 13:55	11/06/23 05:11	10.45g/5mL	10g/5mL	0.96
A3J1887-09	Soil	NWTPH-Dx	10/31/23 13:56	11/06/23 05:11	10.09g/5mL	10g/5mL	0.99
Batch: 23K0247							
A3J1887-03RE1	Soil	NWTPH-Dx	10/31/23 12:40	11/07/23 10:10	10.17g/5mL	10g/5mL	0.98

	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0065							
A3J1887-10	Water	NWTPH-Gx (MS)	10/31/23 14:25	11/02/23 12:11	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0024							
A3J1887-01	Soil	NWTPH-Gx (MS)	10/31/23 10:20	10/31/23 10:20	8.16g/5mL	5g/5mL	0.61
A3J1887-02	Soil	NWTPH-Gx (MS)	10/31/23 11:27	10/31/23 11:27	6.77g/5mL	5g/5mL	0.74
A3J1887-03	Soil	NWTPH-Gx (MS)	10/31/23 12:40	10/31/23 12:40	4.36g/5mL	5g/5mL	1.15
A3J1887-04	Soil	NWTPH-Gx (MS)	10/31/23 13:30	10/31/23 13:30	6.67g/5mL	5g/5mL	0.75
A3J1887-05	Soil	NWTPH-Gx (MS)	10/31/23 14:54	10/31/23 14:54	6.43g/5mL	5g/5mL	0.78
A3J1887-06	Soil	NWTPH-Gx (MS)	10/31/23 15:45	10/31/23 15:45	6.94g/5mL	5g/5mL	0.72
A3J1887-07	Soil	NWTPH-Gx (MS)	10/31/23 16:34	10/31/23 16:34	7.37g/5mL	5g/5mL	0.68
A3J1887-08	Soil	NWTPH-Gx (MS)	10/31/23 13:55	10/31/23 13:55	6.91g/5mL	5g/5mL	0.72
A3J1887-09	Soil	NWTPH-Gx (MS)	10/31/23 13:56	10/31/23 13:56	7.18g/5mL	5g/5mL	0.70

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

SAMPLE PREPARATION INFORMATION

	Gaso	oline Range Hydrocar	bons (Benzene thro	ugh Naphthalene) by	y NWTPH-Gx		
		BTE	X+N Compounds by	EPA 8260D			
<u>Prep: EPA 5030C</u>					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0065							
A3J1887-10	Water	EPA 8260D	10/31/23 14:25	11/02/23 12:11	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0024							
A3J1887-01	Soil	5035A/8260D	10/31/23 10:20	10/31/23 10:20	8.16g/5mL	5g/5mL	0.61
A3J1887-02	Soil	5035A/8260D	10/31/23 11:27	10/31/23 11:27	6.77g/5mL	5g/5mL	0.74
A3J1887-03	Soil	5035A/8260D	10/31/23 12:40	10/31/23 12:40	4.36g/5mL	5g/5mL	1.15
A3J1887-04	Soil	5035A/8260D	10/31/23 13:30	10/31/23 13:30	6.67g/5mL	5g/5mL	0.75
A3J1887-05	Soil	5035A/8260D	10/31/23 14:54	10/31/23 14:54	6.43g/5mL	5g/5mL	0.78
A3J1887-06	Soil	5035A/8260D	10/31/23 15:45	10/31/23 15:45	6.94g/5mL	5g/5mL	0.72
A3J1887-07	Soil	5035A/8260D	10/31/23 16:34	10/31/23 16:34	7.37g/5mL	5g/5mL	0.68
A3J1887-08	Soil	5035A/8260D	10/31/23 13:55	10/31/23 13:55	6.91g/5mL	5g/5mL	0.72
A3J1887-09	Soil	5035A/8260D	10/31/23 13:56	10/31/23 13:56	7.18g/5mL	5g/5mL	0.70

		Conv	entional Microbiology	/ Parameters			
Prep: Method Prep:	<u>Aq</u>				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23J1234							
A3J1887-10	Water	SM 9223 B	10/31/23 14:25	10/31/23 18:47	100 mL / 100 mL	100 mL / 100 mL	1.00

			Percent Dry We	ight			
Prep: Total Solids ([Ory Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0029							
A3J1887-01	Soil	EPA 8000D	10/31/23 10:20	11/01/23 10:13			NA
A3J1887-02	Soil	EPA 8000D	10/31/23 11:27	11/01/23 10:13			NA
A3J1887-03	Soil	EPA 8000D	10/31/23 12:40	11/01/23 10:13			NA
A3J1887-04	Soil	EPA 8000D	10/31/23 13:30	11/01/23 10:13			NA
A3J1887-05	Soil	EPA 8000D	10/31/23 14:54	11/01/23 10:13			NA
A3J1887-06	Soil	EPA 8000D	10/31/23 15:45	11/01/23 10:13			NA
A3J1887-07	Soil	EPA 8000D	10/31/23 16:34	11/01/23 10:13			NA

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA3J1887 - 11 22 23 1606

SAMPLE PREPARATION INFORMATION

			Percent Dry Wei	ight			
Prep: Total Solids (I	Ory Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3J1887-08	Soil	EPA 8000D	10/31/23 13:55	11/01/23 10:13			NA
A3J1887-09	Soil	EPA 8000D	10/31/23 13:56	11/01/23 10:13			NA

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QUALIFIER DEFINITIONS

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

Apex Laboratories

CONT	The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
F-11	The hydrocarbon pattern indicates possible weathered diesel, mineral oil, or a contribution from a related component.
F-13	The chromatographic pattern does not resemble the fuel standard used for quantitation
Q-19	Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
S-05	Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.
TEMP	Sample was received outside of recommended temperature.
V-01	Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

V-16 Sample aliquot was subsampled from the sample container in the laboratory. The subsampled aliquot was not preserved 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.

<u>Detection Limits:</u> 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).

Apex Laboratories

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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 ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA3J1887 - 11 22 23 1606

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Menberg

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.

Project:

Redland

3140 NE Broadway Street Portland, OR 97232 Project Number: 0106.37.001

Report ID:

Project Manager: David Weatherby A3J1887 - 11 22 23 1606

Company: MPA				1																	
l		Project Mgr. Do Lice Othrectory	7	Hoak	Negt V	χ		Projec	t Name	5	경	7	0	8	Project Name: Ded/Luds Gas Starton	ક્ર		Project #: 0106	0106,37.001	딧	1
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IAI Kequested (circle) 5 Day		Standard	P	Other:			1														
SAMPLES ARE HELD FOR 30 DAYS	HELD FOR	SUDANS							Т												
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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3J1887 - 11 22 23 1606

	APEX LABS COOLER RECEIPT FORM
Client: MFA	Element WO#: A3J1887
Project/Project #: Rodi	and 5 993 Station told 87 001 0100.37.001
Delivery Info:	aux for kam 10/31/23
Date/time received: 10/3/	123 @ 18:00 By: SAM
the state of the s	nt ESS FedEx UPS Radio Morgan SDS Evergreen Other
	te/time inspected: 11/31/23 @ 18:00 By
Chain of Custody included	
Signed/dated by client?	Yes No
	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	1-6
Custody seals? (Y/N)	N
Received on ice? (Y/N)	<u>y</u>
Temp. blanks? (Y/N)	<u>y</u>
Ice type: (Gel/Real/Other)	
Condition (In/Out):	
Green dots applied to out o Out of temperature samples	s form initiated? Yes/No
Out of temperature samples	e/time inspected: 10/31/23 @ 18:12 By: 6
Out of temperature samples Sample Inspection: Date All samples intact? Yes	e/time inspected: 10/31/23 @ 18:12 By: 65/60/
Out of temperature samples Sample Inspection: Date All samples intact? Yes	e/time inspected: 10/31/23 @ 18:12 By: 65/34/ \[\(\text{No} \) Comments: \(\text{Sumple 1D} \) Yes \(\text{No} \) Comments: \(\text{13} \) HCL \(\text{VO3} \) reads \(\text{Sumple 1D} \)
Out of temperature samples Sample Inspection: Date All samples intact? Yes Date Bottle labels/COCs agree?	e/time inspected: 10/31/23 @ 18:12 By: OKAM No Comments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes Sample Inspection: Date All samples intact? Yes Sample Inspection: Date All samples intact? Yes Sample Inspection Samples Inspec	e/time inspected: 10/31/23 @ 18:12 By: OKAM No _ Comments: Yes _ No _ Comments: 1/3 HLL VOA rends sample 1D Andres rends 10 qs RSTIPT-GP. 9.5 & bagged in Se es form initiated? Yes _ No _ Acc for Kam 11/11/12
Out of temperature samples Sample Inspection: Date All samples intact? Yes Sample Inspection: Date All samples intact? Yes Sample Inspection: Date All samples intact? Yes Sample Inspection Samples Inspec	e/time inspected: 10/31/23 @ 18:12 By: OKAM No Comments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes Date Bottle labels/COCs agree? CoC/container discrepancie Containers/volumes received	e/time inspected: 10/31/23 @ 18:12 By: 65/30/ No Comments:
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Out of temperature samples Sample Inspection: Date All samples intact? Yes All samples intact? Yes Dottle labels/COCs agree? Cloc. 37.001, He ile labels/COC/container discrepancies Containers/volumes received Do VOA vials have visible Comments 23 has He	e/time inspected: 10/31/23 @ 18:12 By: 6 AM No Comments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes All samples intact? Yes Date Bottle labels/COCs agree? CoC/container discrepancie Containers/volumes received Do VOA vials have visible Comments 23 has H. Water samples: pH checked	e/time inspected: 10/31/23 @ 18:12 By: 6/44/ No Comments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes All samples intact? Yes Double labels/COCs agree? Cloc. 37.001, He ile labels/COCs agree? CoC/container discrepance. Containers/volumes received Do VOA vials have visible Comments 23 has He water samples: pH checked Comments:	e/time inspected: 10/31/23 @ 18:12 By: 6/31/23 NoComments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes All samples intact? Yes Double labels/COCs agree? Cloc. 37.001, He ile labels/COCs agree? CoC/container discrepance. Containers/volumes received Do VOA vials have visible Comments 23 has He water samples: pH checked Comments:	e/time inspected: 10/31/23 @ 18:12 By: 6/44/ NoComments:
Out of temperature samples Sample Inspection: Date All samples intact? Yes All samples intact? Yes Double labels/COCs agree? Cloc. 37.001, He ile labels/COCs agree? CoC/container discrepance. Containers/volumes received Do VOA vials have visible Comments 23 has He water samples: pH checked Comments:	e/time inspected: 10/31/23 @ 18:12 By: 6/44/ NoComments:

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Philip Nerenberg, Lab Director

Philip Maenberg

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Apex Laboratories, LLC

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

Wednesday, November 22, 2023
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A3K1209 - Redland - 0106.37.001

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 A3K1209, which was received by the laboratory on 11/10/2023 at 3:06:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 3.5 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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Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RS-TP2-SS-10.5	A3K1209-01	Soil	11/10/23 10:47	11/10/23 15:06
RS-TP2-SS-11.5	A3K1209-02	Soil	11/10/23 11:43	11/10/23 15:06
RS-TP2-SS-11.7	A3K1209-03	Soil	11/10/23 11:47	11/10/23 15:06
RS-TP2-GW-12.5	A3K1209-04	Water	11/10/23 12:30	11/10/23 15:06
RS-TP2-GW-ecoli	A3K1209-05	Water	11/10/23 13:41	11/10/23 15:06

Apex Laboratories

Philip Marenberg

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Apex Laboratories, LLC

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ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-TP2-SS-10.5 (A3K1209-01)				Matrix: Soil		Batch: 2	23K0648	CONT
Diesel	ND	13.2	26.4	mg/kg dry	1	11/16/23 23:03	NWTPH-Dx	
Oil	ND	26.4	52.8	mg/kg dry	1	11/16/23 23:03	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 73 %	Limits: 50-150 %	1	11/16/23 23:03	NWTPH-Dx	
RS-TP2-SS-11.5 (A3K1209-02)				Matrix: Soil		Batch: 2	23K0648	CONT
Diesel	ND	14.4	28.8	mg/kg dry	1	11/16/23 23:24	NWTPH-Dx	
Oil	ND	28.8	57.5	mg/kg dry	1	11/16/23 23:24	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 78 %	Limits: 50-150 %	1	11/16/23 23:24	NWTPH-Dx	
RS-TP2-SS-11.7 (A3K1209-03)				Matrix: Soil		Batch:	23K0648	CONT
Diesel	ND	15.0	29.9	mg/kg dry	1	11/16/23 23:45	NWTPH-Dx	
Oil	ND	29.9	59.8	mg/kg dry	1	11/16/23 23:45	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 80 %	Limits: 50-150 %	1	11/16/23 23:45	NWTPH-Dx	
RS-TP2-GW-12.5 (A3K1209-04)				Matrix: Wate	er	Batch: 2	23K0645	
Diesel	ND	0.115	0.230	mg/L	1	11/16/23 20:15	NWTPH-Dx	
Oil	ND	0.230	0.460	mg/L	1	11/16/23 20:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 87 %	Limits: 50-150 %	1	11/16/23 20:15	NWTPH-Dx	

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

Gasol	ine Range Hy	drocarbons (B	enzene tl	hrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-TP2-SS-10.5 (A3K1209-01)				Matrix: Soil		Batch:	23K0500	
Gasoline Range Organics	ND	4.43	8.85	mg/kg dry	50	11/13/23 22:17	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 108 %	Limits: 50-150 %	1	11/13/23 22:17	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	11/13/23 22:17	NWTPH-Gx (MS)	
RS-TP2-SS-11.5 (A3K1209-02)				Matrix: Soil		Batch:	23K0500	
Gasoline Range Organics	ND	4.27	8.55	mg/kg dry	50	11/13/23 22:43	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 108 %	Limits: 50-150 %	1	11/13/23 22:43	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	11/13/23 22:43	NWTPH-Gx (MS)	
RS-TP2-SS-11.7 (A3K1209-03)				Matrix: Soil		Batch:	23K0500	
Gasoline Range Organics	ND	4.33	8.66	mg/kg dry	50	11/13/23 23:08	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	: 107 %	Limits: 50-150 %	1	11/13/23 23:08	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			97 %	50-150 %	1	11/13/23 23:08	NWTPH-Gx (MS)	
RS-TP2-GW-12.5 (A3K1209-04)				Matrix: Wate	er	Batch:	23K0479	
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1	11/13/23 15:46	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recover	y: 90 %	Limits: 50-150 %	1	11/13/23 15:46	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			98 %	50-150 %	1	11/13/23 15:46	NWTPH-Gx (MS)	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
	Sample	Detection	Reporting			Date		
Analyte	Result	Limit	Limit	Units	Dilution	Analyzed	Method Ref.	Notes
RS-TP2-SS-10.5 (A3K1209-01)				Matrix: Soil		Batch:	23K0500	
Benzene	ND	8.85	17.7	ug/kg dry	50	11/13/23 22:17	5035A/8260D	
Toluene	ND	44.3	88.5	ug/kg dry	50	11/13/23 22:17	5035A/8260D	
Ethylbenzene	ND	22.1	44.3	ug/kg dry	50	11/13/23 22:17	5035A/8260D	
Xylenes, total	ND	66.4	133	ug/kg dry	50	11/13/23 22:17	5035A/8260D	
Naphthalene	ND	177	354	ug/kg dry	50	11/13/23 22:17	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-120 %	1	11/13/23 22:17	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	11/13/23 22:17	5035A/8260D	
4-Bromofluorobenzene (Surr)			104 %	79-120 %	1	11/13/23 22:17	5035A/8260D	
RS-TP2-SS-11.5 (A3K1209-02)				Matrix: Soil		Batch:	23K0500	
Benzene	ND	8.55	17.1	ug/kg dry	50	11/13/23 22:43	5035A/8260D	
Toluene	ND	42.7	85.5	ug/kg dry	50	11/13/23 22:43	5035A/8260D	
Ethylbenzene	ND	21.4	42.7	ug/kg dry	50	11/13/23 22:43	5035A/8260D	
Xylenes, total	ND	64.1	128	ug/kg dry	50	11/13/23 22:43	5035A/8260D	
Naphthalene	ND	171	342	ug/kg dry	50	11/13/23 22:43	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-120 %	1	11/13/23 22:43	5035A/8260D	
Toluene-d8 (Surr)			94 %	80-120 %	1	11/13/23 22:43	5035A/8260D	
4-Bromofluorobenzene (Surr)			103 %	79-120 %	1	11/13/23 22:43	5035A/8260D	
RS-TP2-SS-11.7 (A3K1209-03)				Matrix: Soil		Batch:	23K0500	
Benzene	ND	8.66	17.3	ug/kg dry	50	11/13/23 23:08	5035A/8260D	
Toluene	ND	43.3	86.6	ug/kg dry	50	11/13/23 23:08	5035A/8260D	
Ethylbenzene	ND	21.6	43.3	ug/kg dry	50	11/13/23 23:08	5035A/8260D	
Xylenes, total	ND	64.9	130	ug/kg dry	50	11/13/23 23:08	5035A/8260D	
Naphthalene	ND	173	346	ug/kg dry	50	11/13/23 23:08	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Reco	very: 97 %	Limits: 80-120 %	1	11/13/23 23:08	5035A/8260D	
Toluene-d8 (Surr)			95 %	80-120 %	1	11/13/23 23:08	5035A/8260D	
4-Bromofluorobenzene (Surr)			104 %	79-120 %	1	11/13/23 23:08	5035A/8260D	
RS-TP2-GW-12.5 (A3K1209-04)				Matrix: Wate	r	Batch:	23K0479	
Benzene	ND	0.100	0.200	ug/L	1	11/13/23 15:46	EPA 8260D	
Toluene	ND	0.500	1.00	ug/L	1	11/13/23 15:46	EPA 8260D	
Ethylbenzene	ND	0.250	0.500	ug/L	1	11/13/23 15:46	EPA 8260D	
Xylenes, total	ND	0.750	1.50	ug/L	1	11/13/23 15:46	EPA 8260D	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-TP2-GW-12.5 (A3K1209-04)				Matrix: Wate	er	Batch:	23K0479	
Naphthalene	ND	2.50	5.00	ug/L	1	11/13/23 15:46	EPA 8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ry: 106 %	Limits: 80-120 %	5 1	11/13/23 15:46	EPA 8260D	
Toluene-d8 (Surr)			100 %	80-120 %	<i>I</i>	11/13/23 15:46	EPA 8260D	
4-Bromofluorobenzene (Surr)			100 %	80-120 %	<i>i</i> 1	11/13/23 15:46	EPA 8260D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

		Convention	al Microbiolo	ogy Paramete	rs			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-TP2-GW-ecoli (A3K1209-05)				Matrix: Wat	ter			
Batch: 23K0454								
E. coli	121	1.00	1.00	MPN/100 mL	1	11/11/23 17:30	SM 9223 B	

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Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RS-TP2-SS-10.5 (A3K1209-01)				Matrix: So	oil	Batch:	23K0486	CONT
% Solids	72.9	1.00	1.00	%	1	11/14/23 06:47	EPA 8000D	
RS-TP2-SS-11.5 (A3K1209-02)				Matrix: So	oil	Batch:	23K0486	CONT
% Solids	66.7	1.00	1.00	%	1	11/14/23 06:47	EPA 8000D	
RS-TP2-SS-11.7 (A3K1209-03)				Matrix: So	oil	Batch:	23K0486	CONT
% Solids	65.2	1.00	1.00	%	1	11/14/23 06:47	EPA 8000D	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	r Oil Hydi	rocarbor	s by NW	ГРН-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0645 - EPA 3510C (Fuels/Acid	Ext.)					Wa	ter				
Blank (23K0645-BLK1)			Prepared	1: 11/16/23 0	6:05 Ana	lyzed: 11/16	/23 17:31					
NWTPH-Dx												
Diesel	ND	0.100	0.200	mg/L	1							
Oil	ND	0.200	0.400	mg/L	1							
Surr: o-Terphenyl (Surr)		Reco	overy: 81 %	Limits: 50-	150 %	Dili	ution: 1x					
LCS (23K0645-BS1)			Prepared	d: 11/16/23 0	6:05 Ana	lyzed: 11/16	/23 17:55					
NWTPH-Dx												
Diesel	1.01	0.100	0.200	mg/L	1	1.25		81	36-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 94%	Limits: 50-	150 %	Dili	ution: 1x					_
LCS Dup (23K0645-BSD1)			Prepared	d: 11/16/23 0	6:05 Ana	lyzed: 11/16	/23 18:18					Q-1
NWTPH-Dx												
Diesel	0.910	0.100	0.200	mg/L	1	1.25		73	36-132%	10	30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 89 %	Limits: 50-	150 %	Dili	ution: 1x					
Batch 23K0648 - EPA 3546 (F	uels)						So	il				
Blank (23K0648-BLK1)			Prepared	1: 11/16/23 0	6:41 Ana	lyzed: 11/16	/23 20:18					
NWTPH-Dx												
Diesel	ND	10.0	20.0	mg/kg we	et 1							
Oil	ND	20.0	40.0	mg/kg we	et 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 97%	Limits: 50-	150 %	Dili	ution: 1x					
LCS (23K0648-BS1)			Prepared	d: 11/16/23 0	6:41 Ana	lyzed: 11/16	/23 20:39					
NWTPH-Dx												
Diesel	116	10.0	20.0	mg/kg we	t 1	125		93	38-132%			
Surr: o-Terphenyl (Surr)		Recov	very: 105 %	Limits: 50-		Dili	ution: 1x					
Duplicate (23K0648-DUP1)			Prepared	d: 11/16/23 0	6:41 Ana	lyzed: 11/16	/23 21:20					
QC Source Sample: Non-SDG (A	3K0960-02)											
Diesel	ND	1110	2220	mg/kg dr	y 100		ND				30%	
Oil	5710	2220	4430	mg/kg dr			6090			7	30%	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	r Oil Hyd	rocarbor	ns by NW1	ГРН-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0648 - EPA 3546 (F	uels)						Soi	l				
Duplicate (23K0648-DUP2)			Prepared	d: 11/16/23 ()6:41 Ana	lyzed: 11/17/	/23 05:34					
QC Source Sample: Non-SDG (A	3K1227-02)											
Diesel	ND	10.7	21.4	mg/kg dr	y 1		ND				30%	
Oil	57.0	21.4	42.7	mg/kg dr	y 1		59.6			4	30%	F-1
Surr: o-Terphenyl (Surr)		Reco	overy: 75 %	Limits: 50	-150 %	Dilı	ution: 1x					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ns (Benz	zene throu	ugh Naphi	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0479 - EPA 5030C							Wa	ter				
Blank (23K0479-BLK1)			Prepared	d: 11/13/23	08:31 Anal	lyzed: 11/13/	/23 14:16					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	0.0500	0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 93 %	Limits: 50	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			102 %	50	0-150 %		"					
LCS (23K0479-BS2)			Prepared	d: 11/13/23	08:31 Anal	lyzed: 11/13/	/23 13:53					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.465	0.0500	0.100	mg/L	1	0.500		93	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 94 %	Limits: 50	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			100 %	50	0-150 %		"					
Duplicate (23K0479-DUP1)			Prepared	d: 11/13/23	08:31 Anal	lyzed: 11/13/	/23 20:17					
QC Source Sample: Non-SDG (A3	3K1230-04)		·						·			
a 1: b a :	36.1	2.50	5.00	mg/L	50		36.2			0.3	30%	
Gasoline Range Organics												
Gasoline Range Organics Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 101 %	Limits: 50	0-150 %	Dili	ıtion: 1x					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ons (Ben	zene throu	igh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0500 - EPA 5035A							Soi	il				
Blank (23K0500-BLK1)			Prepared	d: 11/13/23	07:58 Anal	yzed: 11/13	/23 14:07					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND	2.50	5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 100 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			94 %	5	0-150 %		"					
LCS (23K0500-BS2)			Prepared	d: 11/13/23	07:58 Anal	yzed: 11/13	/23 13:41					
NWTPH-Gx (MS)												
Gasoline Range Organics	22.4	2.50	5.00	mg/kg v	vet 50	25.0		89	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 100 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			91 %	5	0-150 %		"					
Duplicate (23K0500-DUP1)			Prepared	d: 11/10/23	09:25 Anal	yzed: 11/13	/23 14:58					
QC Source Sample: Non-SDG (A3	3K1226-01)											
Gasoline Range Organics	ND	2.39	4.78	mg/kg d	lry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 106 %	Limits: 5	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			95 %	5	0-150 %		"					
Duplicate (23K0500-DUP2)			Prepared	d: 11/09/23	07:25 Anal	yzed: 11/13	/23 19:42					
QC Source Sample: Non-SDG (A3	3K1149-01)											
Gasoline Range Organics	ND	2.89	5.77	mg/kg d	lry 50		ND				30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 108 %	Limits: 5	0-150 %	Dilt	ution: 1x					
1,4-Difluorobenzene (Sur)			98 %	5	0-150 %		"					

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

Project Manager: David Weatherby

			RIFX+	N Compo	ounds by	EPA 8260	טנ					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0479 - EPA 5030C							Wa	ter				
Blank (23K0479-BLK1)			Prepared	1: 11/13/23	08:31 Ana	lyzed: 11/13	/23 14:16					
EPA 8260D												
Benzene	ND	0.100	0.200	ug/L	1							
Toluene	ND	0.500	1.00	ug/L	1							
Ethylbenzene	ND	0.250	0.500	ug/L	1							
Xylenes, total	ND	0.750	1.50	ug/L	1							
Naphthalene	ND	2.50	5.00	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 112 %	Limits: 80	0-120 %	Dil	ution: 1x					_
Toluene-d8 (Surr)			100 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	0-120 %		"					
LCS (23K0479-BS1)			Prepared	d: 11/13/23	08:31 Ana	lyzed: 11/13	/23 13:17					
EPA 8260D												
Benzene	21.8	0.100	0.200	ug/L	1	20.0		109	80-120%			
Toluene	20.1	0.500	1.00	ug/L	1	20.0		101	80-120%			
Ethylbenzene	20.6	0.250	0.500	ug/L	1	20.0		103	80-120%			
Xylenes, total	60.2	0.750	1.50	ug/L	1	60.0		100	80-120%			
Naphthalene	16.4	2.50	5.00	ug/L	1	20.0		82	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 109 %	Limits: 80	0-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			98 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80)-120 %		"					
Duplicate (23K0479-DUP1)			Prepared	d: 11/13/23	08:31 Ana	lyzed: 11/13	/23 20:17					
QC Source Sample: Non-SDG (A3	K1230-04)											
Benzene	49.0	5.00	10.0	ug/L	50		62.5			24	30%	
Toluene	37.0	25.0	50.0	ug/L	50		38.0			3	30%	
Ethylbenzene	663	12.5	25.0	ug/L	50		680			3	30%	
Xylenes, total	5100	37.5	75.0	ug/L	50		5200			2	30%	
Naphthalene	464	125	250	ug/L	50		471			1	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	ery: 110 %	Limits: 80	0-120 %	Dil	ution: 1x					
Toluene-d8 (Surr)			99 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			96 %	80	-120 %		"					

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D Detection Reporting Spike Source % REC **RPD** Analyte Result Ĺimit Units Dilution Amount Result % REC Limits RPD Limit Limit Notes Batch 23K0479 - EPA 5030C Water Matrix Spike (23K0479-MS1) Prepared: 11/13/23 08:31 Analyzed: 11/13/23 16:54 QC Source Sample: Non-SDG (A3K1229-02) EPA 8260D 0.200 0.200 Benzene 23.8 ug/L 1 20.0 ND 119 79-120% Toluene 21.9 0.500 1.00 ug/L 1 20.0 ND 110 80-121% Ethylbenzene 22.5 0.500 0.500 20.0 79-121% ug/L 1 ND 113 Xylenes, total 67.1 1.50 1.50 ug/L 1 60.0 ND 112 79-121% Naphthalene 19.3 2.50 5.00 20.0 ND 97 61-128% ug/L 1 Surr: 1,4-Difluorobenzene (Surr) 107 % Limits: 80-120 % Recovery: Dilution: 1x Toluene-d8 (Surr) 96 % 80-120 % 4-Bromofluorobenzene (Surr) 93 % 80-120 %

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0500 - EPA 5035A							So	il				
Blank (23K0500-BLK1)			Prepare	d: 11/13/23 0	7:58 Ana	yzed: 11/13	/23 14:07					
5035A/8260D												
Benzene	ND	5.00	10.0	ug/kg we	t 50							
Toluene	ND	25.0	50.0	ug/kg we	t 50							
Ethylbenzene	ND	12.5	25.0	ug/kg we	t 50							
Xylenes, total	ND	37.5	75.0	ug/kg we	t 50							
Naphthalene	ND	100	200	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 96 %	Limits: 80-		Dili	ution: 1x					
Toluene-d8 (Surr)			96 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			104 %	79-	120 %		"					
LCS (23K0500-BS1)			Prepare	d: 11/13/23 0	7:58 Anal	yzed: 11/13	/23 13:15					
5035A/8260D												
Benzene	939	5.00	10.0	ug/kg we	t 50	1000		94	80-120%			
Toluene	942	25.0	50.0	ug/kg we	t 50	1000		94	80-120%			
Ethylbenzene	1070	12.5	25.0	ug/kg we	t 50	1000		107	80-120%			
Xylenes, total	2960	37.5	75.0	ug/kg we	t 50	3000		99	80-120%			
Naphthalene	812	100	200	ug/kg we	t 50	1000		81	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 96 %	Limits: 80-	120 %	Dili	ution: 1x					
Toluene-d8 (Surr)			94 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			104 %	79-	120 %		"					
Duplicate (23K0500-DUP1)			Prepare	d: 11/10/23 0	9:25 Anal	lyzed: 11/13	/23 14:58					
QC Source Sample: Non-SDG (A3	K1226-01)											
Benzene	ND	4.78	9.56	ug/kg dry	50		ND				30%	
Toluene	ND	23.9	47.8	ug/kg dry			ND				30%	
Ethylbenzene	ND	12.0	23.9	ug/kg dry			ND				30%	
Xylenes, total	ND	35.9	71.7	ug/kg dry			ND				30%	
Naphthalene	ND	95.6	191	ug/kg dry			ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 96 %	Limits: 80-		Dili	ution: 1x					
Toluene-d8 (Surr)			94 %		120 %		"					
4-Bromofluorobenzene (Surr)			105 %		120 %		,,					

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

Project Manager: David Weatherby

			BTEX+	N Compo	unds by	EPA 8260	D					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0500 - EPA 5035A							Soi	I				
Ouplicate (23K0500-DUP2)			Prepared	l: 11/09/23 (7:25 Ana	lyzed: 11/13/	/23 19:42					
QC Source Sample: Non-SDG (A3	K1149-01)											
Benzene	ND	5.77	11.5	ug/kg dr	y 50		ND				30%	
Toluene	ND	28.9	57.7	ug/kg dr	y 50		ND				30%	
Ethylbenzene	ND	14.4	28.9	ug/kg dr	y 50		ND				30%	
Xylenes, total	ND	43.3	86.6	ug/kg dr	y 50		ND				30%	
Naphthalene	ND	115	231	ug/kg dr	y 50		ND				30%	
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 98 %	Limits: 80	-120 %	Dilı	tion: 1x					
Toluene-d8 (Surr)			94 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			105 %	79	-120 %		"					
Matrix Spike (23K0500-MS1)			Prepared	l: 11/10/23	11:47 Anal	lyzed: 11/13/	/23 23:34					
QC Source Sample: RS-TP2-SS-11	.7 (A3K120	<u>19-03)</u>										
5035A/8260D												
Benzene	1720	8.66	17.3	ug/kg dr	y 50	1730	ND	99	77-121%			
Toluene	1740	43.3	86.6	ug/kg dr	y 50	1730	ND	100	77-121%			
Ethylbenzene	1970	21.6	43.3	ug/kg dr	y 50	1730	ND	114	76-122%			
Xylenes, total	5350	64.9	130	ug/kg dr	y 50	5200	ND	103	78-124%			
Naphthalene	1300	173	346	ug/kg dr	y 50	1730	ND	75	62-129%			
Surr: 1,4-Difluorobenzene (Surr)		Reco	overy: 94 %	Limits: 80	-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			93 %	80	-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	70	-120 %		,,					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0486 - Total Solids (Dry	y Weigl	ht) - 2022					Soi	l				
Duplicate (23K0486-DUP1)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-01)											
% Solids	78.0	1.00	1.00	%	1		76.9			1	10%	
Duplicate (23K0486-DUP2)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-02)											
% Solids	72.6	1.00	1.00	%	1		69.2			5	10%	
Duplicate (23K0486-DUP3)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-03)											
% Solids	71.4	1.00	1.00	%	1		70.4			1	10%	
Duplicate (23K0486-DUP4)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-04)											
% Solids	64.6	1.00	1.00	%	1		63.9			1	10%	
Duplicate (23K0486-DUP5)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-05)											
% Solids	71.7	1.00	1.00	%	1		71.7			0.05	10%	
Duplicate (23K0486-DUP6)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-06)											
% Solids	70.5	1.00	1.00	%	1		70.7			0.2	10%	
Duplicate (23K0486-DUP7)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-07)											
% Solids	71.8	1.00	1.00	%	1		72.3			0.7	10%	
Duplicate (23K0486-DUP8)			Prepared	: 11/13/23	09:52 Anal	yzed: 11/14/	23 06:47					
QC Source Sample: Non-SDG (A3K12	202-08)											
% Solids	70.1	1.00	1.00	%	1		70.6			0.7	10%	

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23K0486 - Total Solids	(Dry Weigl	nt) - 2022					Soil					
Duplicate (23K0486-DUP9)			Prepared	: 11/13/23	18:43 Anal	yzed: 11/14/	/23 06:47					
QC Source Sample: Non-SDG (A3	3K1255-01)											
% Solids	89.9	1.00	1.00	%	1		88.3			2	10%	
Duplicate (23K0486-DUPA)			Prepared	: 11/13/23	18:43 Ana	yzed: 11/14/	/23 06:47					
QC Source Sample: Non-SDG (A3	3K1268-02)											
% Solids	75.8	1.00	1.00	%	1		76.9			2	10%	

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

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001 Portland, OR 97232 Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

SAMPLE PREPARATION INFORMATION

Redland

		Diesel and	l/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (Fu	els/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0645							
A3K1209-04	Water	NWTPH-Dx	11/10/23 12:30	11/16/23 06:05	870mL/5mL	1000mL/5mL	1.15
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0648			•				
A3K1209-01	Soil	NWTPH-Dx	11/10/23 10:47	11/16/23 06:41	10.38g/5mL	10g/5mL	0.96
A3K1209-02	Soil	NWTPH-Dx	11/10/23 11:43	11/16/23 06:41	10.42g/5mL	10g/5mL	0.96
A3K1209-03	Soil	NWTPH-Dx	11/10/23 11:47	11/16/23 06:41	10.26g/5mL	10g/5mL	0.98
	Gas	soline Range Hydrocart	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0479			1	1			
A3K1209-04	Water	NWTPH-Gx (MS)	11/10/23 12:30	11/13/23 08:31	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0500			1	1			
A3K1209-01	Soil	NWTPH-Gx (MS)	11/10/23 10:47	11/10/23 10:47	4.9g/5mL	5g/5mL	1.02
A3K1209-02	Soil	NWTPH-Gx (MS)	11/10/23 11:43	11/10/23 11:43	6.19g/5mL	5g/5mL	0.81
A3K1209-03	Soil	NWTPH-Gx (MS)	11/10/23 11:47	11/10/23 11:47	6.41g/5mL	5g/5mL	0.78
		BTEX	(+N Compounds by	EPA 8260D			
Prep: EPA 5030C		-			Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0479			*				
A3K1209-04	Water	EPA 8260D	11/10/23 12:30	11/13/23 08:31	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0500				*			
A3K1209-01	Soil	5035A/8260D	11/10/23 10:47	11/10/23 10:47	4.9g/5mL	5g/5mL	1.02

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

NA

NA

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SAMPLE PREPARATION INFORMATION

		ВТЕ	X+N Compounds by	EPA 8260D			
Prep: EPA 5035A			_	_	Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A3K1209-03	Soil	5035A/8260D	11/10/23 11:47	11/10/23 11:47	6.41g/5mL	5g/5mL	0.78
		Conv	entional Microbiology	y Parameters			
Prep: Method Prep: Aq					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0454							
A3K1209-05	Water	SM 9223 B	11/10/23 13:41	11/10/23 16:02	100mL/100mL	100mL/100mL	1.00
			Percent Dry Wei	ight			
Prep: Total Solids (Dry	Weight) - 2022				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 23K0486							
A3K1209-01	Soil	EPA 8000D	11/10/23 10:47	11/13/23 09:52			NA

11/10/23 11:43

11/10/23 11:47

11/13/23 09:52

11/13/23 09:52

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A3K1209-02

A3K1209-03

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EPA 8000D

EPA 8000D

Soil

Soil



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A3K1209 - 11 22 23 1607

QUALIFIER DEFINITIONS

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

Apex Laboratories

- CONT The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.
- F-13 The chromatographic pattern does not resemble the fuel standard used for quantitation
- J Estimated Result. Result detected below the lowest point of the calibration curve, but above the specified MDL.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.
- S-01 Surrogate recovery for this sample is not available due to sample dilution required from high analyte concentration and/or matrix interference.

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA3K1209 - 11 22 23 1607

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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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA3K1209 - 11 22 23 1607

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

- Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).
- -For Blank hits falling between ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 23 of 26



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA3K1209 - 11 22 23 1607

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 <u>exception</u> 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

Philip Menberg

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

Apex Laboratories

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Philip Nerenberg, Lab Director

Page 24 of 26



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Portland, OR 97232

Project: Redland
Project Number: 0106.37.001

Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

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SAMPLES ARE HELD FOR 30 DAYS	HELD FOR	30 DAYS							Т															
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Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 25 of 26 $\,$



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. 3140 NE Broadway Street Portland, OR 97232 Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A3K1209 - 11 22 23 1607

	APEXIABS COOLER RECEIPT FORM
Client: <u>MFA</u>	Element WO#: A3 MIZO
Project/Project #: 🔎 🕜	Aland Stone 0106.37.001
Delivery Info:	
Date/time received: 11/1	0/13 @ 15:06 By: APW
Delivered by: Apex_Cl	ient <u>ESS</u> FedEx UPS Radio Morgan SDS Evergreen Other
Cooler Inspection Da	nte/time inspected: 11/10 p. 3 @ 15:06 By: AM
Chain of Custody includ	
Signed/dated by client?	Yes No
	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	3.5
Custody seals? (Y/N)	<u>N</u>
Received on ice? (Y/N)	<u> </u>
Temp. blanks? (Y/N)	<u> </u>
Ice type: (Gel/Real/Othe	r) Yleal
Condition (In/Out):	<u> </u>
	±e/time inspected: (_10-23 @ 1513 By:
Bottle labels/COCs agre	e? Yes YNo X Comments: A5 - TP2 - 55 - 11-5: 1/2 yours
	11744.
	ncies form initiated? Yes No _x
	ived appropriate for analysis? Yes 🔀 No Comments:
Do VOA vials have visib	ole headspace? Yes No _× NA
Comments 3/3 5e	
Water samples: pH check	ked: Yes XNo NA pH appropriate? Yes No NA pH ID: <u>A 237</u> 172
Comments:	
Additional information:	
Labeled by:	Witness: Cooler Inspected by:
	OF Form Y-003 R-01
~ 11	

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 26 of 26 $\,$



Apex Laboratories, LLC

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

Friday, April 12, 2024
David Weatherby
Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

RE: A4D1094 - Redland - 0106.37.001

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 A4D1094, which was received by the laboratory on 4/10/2024 at 10:03:00AM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 5.3 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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Philip Nerenberg, Lab Director

Philip Nevenberg



Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001

Project Manager: David Weatherby

Report ID: A4D1094 - 04 12 24 0947

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	PRMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
RG-GW-001	A4D1094-01	Water	04/10/24 08:33	04/10/24 10:03
DB-GW-001	A4D1094-02	Water	04/10/24 08:39	04/10/24 10:03
RD-GW-001	A4D1094-03	Water	04/10/24 08:50	04/10/24 10:03
VL-GW-001	A4D1094-04	Water	04/10/24 08:54	04/10/24 10:03

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Marenberg

Page 2 of 10



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street
Portland, OR 97232

Project: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A4D1094 - 04 12 24 0947

ANALYTICAL SAMPLE RESULTS

		Conventiona	al Microbiolo	gy Parameter	rs			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
RG-GW-001 (A4D1094-01)				Matrix: Wat	er			
Batch: 24D0410 E. coli	ND		1.00	MPN/100 mL	1	04/11/24 12:22	SM 9223 B	
DB-GW-001 (A4D1094-02)				Matrix: Wate	er			
Batch: 24D0410								
E. coli	ND		1.00	MPN/100 mL	1	04/11/24 12:22	SM 9223 B	
RD-GW-001 (A4D1094-03)				Matrix: Wate	er			
Batch: 24D0410								
E. coli	ND		1.00	MPN/100 mL	1	04/11/24 12:22	SM 9223 B	
VL-GW-001 (A4D1094-04)			,	Matrix: Wate	er			
Batch: 24D0410								
E. coli	4.10		1.00	MPN/100 mL	1	04/11/24 12:22	SM 9223 B	

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

Page 3 of 10



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC. Project: 3140 NE Broadway Street Project Number: 0106.37.001

Portland, OR 97232 Project Manager: David Weatherby

Report ID: A4D1094 - 04 12 24 0947

SAMPLE PREPARATION INFORMATION

Redland

		Conv	entional Microbiology	/ Parameters			
Prep: Method Prep:	Aq			_	Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 24D0410							
A4D1094-01	Water	SM 9223 B	04/10/24 08:33	04/10/24 12:09	100 mL / 100 mL	100 mL/100 mL	1.00
A4D1094-02	Water	SM 9223 B	04/10/24 08:39	04/10/24 12:09	100 mL / 100 mL	100mL/100mL	1.00
A4D1094-03	Water	SM 9223 B	04/10/24 08:50	04/10/24 12:09	100 mL / 100 mL	100mL/100mL	1.00
A4D1094-04	Water	SM 9223 B	04/10/24 08:54	04/10/24 12:09	100 mL/100 mL	100 mL/100 mL	1.00

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Merenberg

Page 4 of 10



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A4D1094 - 04 12 24 0947

QUALIFIER DEFINITIONS

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

There are No Qualifiers on Sample or QC Data for this report

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Manherz



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA4D1094 - 04 12 24 0947

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).

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Manhera

Page 6 of 10



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA4D1094 - 04 12 24 0947

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to ½ the Reporting Limit (RL).

- -For Blank hits falling between ½ 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.

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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.

Benzofluoranthene Isomer Reporting:

Due to coelution on the analytical column, the Benzo(b)fluoranthene results represent the concentration of both Benzo(b)fluoranthene and Benzo(j) fluoranthene. Calibration is based on the response of Benzo(b)fluoranthene, and the results represent the combined Benzo(b+j)fluoranthene(s).

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Report ID:Portland, OR 97232Project Manager:David WeatherbyA4D1094 - 04 12 24 0947

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 <u>exception</u> 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

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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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

Philip Nevenberg

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Philip Nerenberg, Lab Director

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Portland, OR 97232

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.
3140 NE Broadway Street

Project Number: Redland
Project Number: 0106.37.001
Project Manager: David Weatherby

Report ID: A4D1094 - 04 12 24 0947

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SAMPLE ID	ITAG	TIME	TAM 40F		LMN	-, -,	-					1808	всв		Ca, Ca Hg, A Se, Ag TOTA) 7			Hold
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Standard Turn	Standard Turn Around Time (TAT) = 10 Business Days	(TAT)	= 10 Busine	ss Days		1	$\{ \mid$			SPECI	SPECIAL INSTRUCTIONS	TRUC	Ĭ	1						
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TAT Requested (circle)	5 Day	/ \$	Standard	0	Other:			i												
SAMPLE	SAMPLES ARE HELD FOR 30 DAYS	FOR 30	DAYS						Τ											
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Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Maul Foster & Alongi, INC.Project:Redland3140 NE Broadway StreetProject Number:0106.37.001Portland, OR 97232Project Manager:David Weatherby

Report ID: A4D1094 - 04 12 24 0947

	APEX LABS COOLER RECEIPT FORM	
Client: MFA	Element WO#: A4 DIOUY	
Project/Project #: <u>Red (</u>	and Garage / 0106.37-001	
Delivery Info:	,	
Date/time received: 4/10/14	(<u>@/003</u>	
Delivered by: Apex_ClientXE	SSFedEx_UPS_RadioMorganSDSEvergreen0	Other
From USDA Regulated Origin?		
Cooler Inspection Date/tim	e inspected: 4/10/24 @ 1003 By: //	
Chain of Custody included?	Yes No	
Signed/dated by client?	Yes No	
Contains USDA Reg. Soils?	Yes No Unsure (email RegSoils)	
Coo	oler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6	Cooler #7
Temperature (°C) <u>5.</u>	.3	
Custody seals? (Y/N)	<u>/</u>	
Received on ice? (Y/N)	<u> </u>	
Temp. blanks? (Y/N)	<u>Y</u>	
	Peal	
Condition (In/Out):	<u> </u>	
All samples intact? Yes No	perature samples? Yes/No	
COC/container discrepancies for	- initiated No.	
	propriate for analysis? Yes No Comments:	
Solitamers, volumes received app	propriate for analysis: Tes Comments.	
Do VOA vials have visible head	space? Yes No NA	***
Water samples: pH checked: Ye	s No NA pH appropriate? Yes No NA pH ID:	·
	T	
Labeled by:	Witness: WAB Cooler Inspected by:	m Y-003 R-02

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

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

Friday, April 25, 2025 Andrew S. Blake, R.G., L.G. Succeed Environmental Consulting 6028 NE 49th Ave. Portland, OR 97218

RE: A5D1429 - Redland - Redland-2

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 A5D1429, which was received by the laboratory on 4/14/2025 at 3:01:00PM.

If you have any questions concerning this report or the services we offer, please feel free to contact me by email at: pnerenberg@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 5.6 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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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

 Succeed Environmental Consulting
 Project:
 Redland

 6028 NE 49th Ave.
 Project Number:
 Redland

 6028 NE 49th Ave.
 Project Number: Redland-2
 Report ID:

 Portland, OR 97218
 Project Manager: Andrew S. Blake, R.G., L.G.
 A5D1429 - 04 25 25 1457

ANALYTICAL REPORT FOR SAMPLES

	SAMPLE INFO	RMATION		
Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
TP-2 (8.0-10.0)	A5D1429-01	Soil	04/13/25 08:15	04/14/25 15:01
TP-3 (8.0-10.0)	A5D1429-02	Soil	04/13/25 08:30	04/14/25 15:01
TP-4 (8.0-10.0)	A5D1429-03	Soil	04/13/25 08:45	04/14/25 15:01
TP-5 (8.0-10.0)	A5D1429-04	Soil	04/13/25 09:15	04/14/25 15:01
TP-1	A5D1429-05	Water	04/13/25 10:00	04/14/25 15:01

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ORELAP ID: OR100062

Succeed Environmental Consulting

6028 NE 49th Ave. Portland, OR 97218 Project: Redland
Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

ANALYTICAL SAMPLE RESULTS

	Die	esel and/or O	il Hydrocar	bons by NWTPI	H-Dx			
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP-2 (8.0-10.0) (A5D1429-01)				Matrix: Soil		Batch:	25D0748	
Diesel	ND		24.9	mg/kg dry	1	04/21/25 08:14	NWTPH-Dx	
Oil	ND		49.8	mg/kg dry	1	04/21/25 08:14	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 79 %	Limits: 50-150 %	1	04/21/25 08:14	NWTPH-Dx	
TP-3 (8.0-10.0) (A5D1429-02)				Matrix: Soil		Batch:	25D0748	CONT
Diesel	ND		25.4	mg/kg dry	1	04/21/25 08:35	NWTPH-Dx	
Oil	ND		50.7	mg/kg dry	1	04/21/25 08:35	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 76 %	Limits: 50-150 %	1	04/21/25 08:35	NWTPH-Dx	
TP-4 (8.0-10.0) (A5D1429-03)				Matrix: Soil		Batch:	25D0748	CONT
Diesel	ND		24.4	mg/kg dry	1	04/21/25 08:56	NWTPH-Dx	
Oil	ND		48.9	mg/kg dry	1	04/21/25 08:56	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 74 %	Limits: 50-150 %	1	04/21/25 08:56	NWTPH-Dx	
TP-5 (8.0-10.0) (A5D1429-04)				Matrix: Soil		Batch: 25D0748		
Diesel	ND		23.2	mg/kg dry	1	04/21/25 09:18	NWTPH-Dx	
Oil	ND		46.4	mg/kg dry	1	04/21/25 09:18	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 71 %	Limits: 50-150 %	1	04/21/25 09:18	NWTPH-Dx	
TP-1 (A5D1429-05)				Matrix: Wate	er	Batch:	25D1007	
Diesel	0.340		0.196	mg/L	1	04/24/25 21:19	NWTPH-Dx	
Oil	ND		0.392	mg/L	1	04/24/25 21:19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Reco	very: 90 %	Limits: 50-150 %	1	04/24/25 21:19	NWTPH-Dx	

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

 Succeed Environmental Consulting
 Project:
 Redland

 6028 NE 49th Ave.
 Project Number:
 Redland

6028 NE 49th Ave.

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID:

A5D1429 - 04 25 25 1457

ANALYTICAL SAMPLE RESULTS

Gasol	line Range Hy	drocarbons (B	enzene tl	nrough Naphtha	alene) by	NWTPH-Gx		
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP-2 (8.0-10.0) (A5D1429-01)				Matrix: Soil		Batch:	25D0652	
Gasoline Range Organics	ND		9.97	mg/kg dry	50	04/16/25 18:03	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	106 %	Limits: 50-150 %	1	04/16/25 18:03	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			108 %	50-150 %	1	04/16/25 18:03	NWTPH-Gx (MS)	
TP-3 (8.0-10.0) (A5D1429-02)				Matrix: Soil		Batch:	25D0652	
Gasoline Range Organics	ND		11.4	mg/kg dry	50	04/16/25 18:30	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	103 %	Limits: 50-150 %	1	04/16/25 18:30	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	1	04/16/25 18:30	NWTPH-Gx (MS)	
TP-4 (8.0-10.0) (A5D1429-03)				Matrix: Soil		Batch:	25D0652	
Gasoline Range Organics	ND		10.2	mg/kg dry	50	04/16/25 18:58	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits: 50-150 %	1	04/16/25 18:58	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			109 %	50-150 %	1	04/16/25 18:58	NWTPH-Gx (MS)	
TP-5 (8.0-10.0) (A5D1429-04)				Matrix: Soil		Batch:	25D0652	
Gasoline Range Organics	ND		8.00	mg/kg dry	50	04/16/25 19:25	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery:	102 %	Limits: 50-150 %	1	04/16/25 19:25	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			110 %	50-150 %	1	04/16/25 19:25	NWTPH-Gx (MS)	
TP-1 (A5D1429-05RE1)				Matrix: Wate	er	Batch:	25D0703	CONT
Gasoline Range Organics	ND		0.100	mg/L	1	04/17/25 17:35	NWTPH-Gx (MS)	
Surrogate: 4-Bromofluorobenzene (Sur)		Recovery	v: 90 %	Limits: 50-150 %	1	04/17/25 17:35	NWTPH-Gx (MS)	
1,4-Difluorobenzene (Sur)			104 %	50-150 %	1	04/17/25 17:35	NWTPH-Gx (MS)	

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ORELAP ID: OR100062

 Succeed Environmental Consulting
 Project:
 Redland

 6028 NE 49th Ave.
 Project Number:
 Redland

6028 NE 49th Ave. Project Number: Redland-2 Report ID:
Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP-2 (8.0-10.0) (A5D1429-01)				Matrix: Soil		Batch:	25D0652	
Benzene	ND		19.9	ug/kg dry	50	04/16/25 18:03	5035A/8260D	
Toluene	ND		99.7	ug/kg dry	50	04/16/25 18:03	5035A/8260D	
Ethylbenzene	ND		49.9	ug/kg dry	50	04/16/25 18:03	5035A/8260D	
Xylenes, total	ND		150	ug/kg dry	50	04/16/25 18:03	5035A/8260D	
Naphthalene	ND		199	ug/kg dry	50	04/16/25 18:03	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 105 %	Limits: 80-120 %	1	04/16/25 18:03	5035A/8260D	
Toluene-d8 (Surr)			99 %	80-120 %	1	04/16/25 18:03	5035A/8260D	
4-Bromofluorobenzene (Surr)			95 %	79-120 %	1	04/16/25 18:03	5035A/8260D	
TP-3 (8.0-10.0) (A5D1429-02)				Matrix: Soil		Batch:	25D0652	
Benzene	ND		22.7	ug/kg dry	50	04/16/25 18:30	5035A/8260D	
Toluene	ND		114	ug/kg dry	50	04/16/25 18:30	5035A/8260D	
Ethylbenzene	ND		56.8	ug/kg dry	50	04/16/25 18:30	5035A/8260D	
Xylenes, total	ND		170	ug/kg dry	50	04/16/25 18:30	5035A/8260D	
Naphthalene	ND		227	ug/kg dry	50	04/16/25 18:30	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 106 %	Limits: 80-120 %	1	04/16/25 18:30	5035A/8260D	
Toluene-d8 (Surr)			100 %	80-120 %	1	04/16/25 18:30	5035A/8260D	
4-Bromofluorobenzene (Surr)			93 %	79-120 %	1	04/16/25 18:30	5035A/8260D	
TP-4 (8.0-10.0) (A5D1429-03)				Matrix: Soil		Batch:	25D0652	
Benzene	ND		20.5	ug/kg dry	50	04/16/25 18:58	5035A/8260D	
Toluene	ND		102	ug/kg dry	50	04/16/25 18:58	5035A/8260D	
Ethylbenzene	ND		51.2	ug/kg dry	50	04/16/25 18:58	5035A/8260D	
Xylenes, total	ND		154	ug/kg dry	50	04/16/25 18:58	5035A/8260D	
Naphthalene	ND		205	ug/kg dry	50	04/16/25 18:58	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 106 %	Limits: 80-120 %	1	04/16/25 18:58	5035A/8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	04/16/25 18:58	5035A/8260D	
4-Bromofluorobenzene (Surr)			95 %	79-120 %	1	04/16/25 18:58	5035A/8260D	
TP-5 (8.0-10.0) (A5D1429-04)				Matrix: Soil		Batch:	25D0652	
Benzene	ND		16.0	ug/kg dry	50	04/16/25 19:25	5035A/8260D	
Toluene	ND		80.0	ug/kg dry	50	04/16/25 19:25	5035A/8260D	
Ethylbenzene	ND		40.0	ug/kg dry	50	04/16/25 19:25	5035A/8260D	
Xylenes, total	ND		120	ug/kg dry	50	04/16/25 19:25	5035A/8260D	

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Philip Nerenberg, Lab Director

Philip Nevenberg



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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental Consulting

6028 NE 49th Ave. Portland, OR 97218 Project: Redland
Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

ANALYTICAL SAMPLE RESULTS

		BTEX+N C	ompounds	by EPA 8260D				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP-5 (8.0-10.0) (A5D1429-04)				Matrix: Soil		Batch:	25D0652	
Naphthalene	ND		160	ug/kg dry	50	04/16/25 19:25	5035A/8260D	
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 106 %	Limits: 80-120 %	1	04/16/25 19:25	5035A/8260D	
Toluene-d8 (Surr)			101 %	80-120 %	1	04/16/25 19:25	5035A/8260D	
4-Bromofluorobenzene (Surr)			95 %	79-120 %	I	04/16/25 19:25	5035A/8260D	
TP-1 (A5D1429-05RE1)				Matrix: Wate	er	Batch:	25D0703	CONT
Benzene	ND		0.200	ug/L	1	04/17/25 17:35	EPA 8260D	
Toluene	ND		1.00	ug/L	1	04/17/25 17:35	EPA 8260D	
Ethylbenzene	ND		0.500	ug/L	1	04/17/25 17:35	EPA 8260D	
Xylenes, total	ND		1.50	ug/L	1	04/17/25 17:35	EPA 8260D	
Naphthalene	ND		5.00	ug/L	1	04/17/25 17:35	EPA 8260D	Q-54
Surrogate: 1,4-Difluorobenzene (Surr)		Recove	ery: 104 %	Limits: 80-120 %	1	04/17/25 17:35	EPA 8260D	
Toluene-d8 (Surr)			105 %	80-120 %	1	04/17/25 17:35	EPA 8260D	
4-Bromofluorobenzene (Surr)			99 %	80-120 %	1	04/17/25 17:35	EPA 8260D	

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6028 NE 49th Ave. Portland, OR 97218 Project: Redland
Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

ANALYTICAL SAMPLE RESULTS

		Pe	ercent Dry W	eight				
Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
TP-2 (8.0-10.0) (A5D1429-01)				Matrix: So	oil	Batch:	25D0609	
% Solids	72.0		1.00	%	1	04/16/25 05:28	EPA 8000D	
TP-3 (8.0-10.0) (A5D1429-02)				Matrix: So	oil	Batch:	25D0609	CONT
% Solids	71.2		1.00	%	1	04/16/25 05:28	EPA 8000D	
TP-4 (8.0-10.0) (A5D1429-03)				Matrix: So	oil	Batch:	25D0609	CONT
% Solids	72.3		1.00	%	1	04/16/25 05:28	EPA 8000D	
TP-5 (8.0-10.0) (A5D1429-04)				Matrix: So	oil	Batch:	25D0609	
% Solids	74.4		1.00	%	1	04/16/25 05:28	EPA 8000D	

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ORELAP ID: OR100062

<u>Succeed Environmental Consulting</u> Project: <u>Redland</u>

6028 NE 49th Ave. Project Number: Redland-2 Report ID:
Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

		D	iesel and/c	r Oil Hyd	rocarbor	s by NW	TPH-Dx					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0748 - EPA 3546 (Fu	uels)						Soi	il				
Blank (25D0748-BLK1)			Prepared	1: 04/18/25	06:00 Ana	lyzed: 04/18	3/25 07:46					
NWTPH-Dx												
Diesel	ND		20.0	mg/kg w	et 1							
Oil	ND		40.0	mg/kg w	et 1							
Surr: o-Terphenyl (Surr)		Reco	overy: 90 %	Limits: 50	1-150 %	Dil	ution: 1x					
LCS (25D0748-BS1)			Prepared	l: 04/18/25 (06:00 Ana	lyzed: 04/18	3/25 08:06					
NWTPH-Dx												
Diesel	101		20.0	mg/kg w	et 1	125		80	38-132%			
Surr: o-Terphenyl (Surr)		Reco	overy: 81 %	Limits: 50	1-150 %	Dil	ution: 1x					
Duplicate (25D0748-DUP1)			Prepared	1: 04/18/25	06:00 Ana	lyzed: 04/18	3/25 08:50					
QC Source Sample: Non-SDG (A5	SD1571-01)											
Diesel	16700		211	mg/kg dı	ry 10		18400			10	30%	
Oil	ND		421	mg/kg di	ry 10		ND				30%	
Surr: o-Terphenyl (Surr)		Recov	very: 106 %	Limits: 50	1-150 %	Dil	ution: 10x					S-05
Duplicate (25D0748-DUP2)			Prepared	l: 04/18/25 (07:12 Ana	lyzed: 04/21	/25 08:32					CON
OC Source Sample: Non-SDG (A5	SD1562-05)											
Diesel	ND		20.9	mg/kg di	ry 1		ND				30%	
Oil	ND		41.8	mg/kg di	ry 1		31.6			***	30%	
Surr: o-Terphenyl (Surr)		Reco	overy: 81 %	Limits: 50	-150 %	Dil	ution: 1x					
Batch 25D1007 - EPA 3510C (F	Fuels/Acid	Ext.)					Wa	ter				
Blank (25D1007-BLK1)			Prepared	1: 04/24/25	11:15 Ana	lyzed: 04/24	/25 20:18					
NWTPH-Dx												
Diesel	ND		0.0800	mg/L	1							
Oil	ND		0.160	mg/L	1							
Surr: o-Terphenyl (Surr)		Recov	very: 106 %	Limits: 50	-150 %	Dil	ution: 1x					
LCS (25D1007-BS1)			Prepared	1: 04/24/25	11:15 Ana	lyzed: 04/24	/25 20:38					
NWTPH-Dx												
Diesel	0.410		0.0800	mg/L	1	0.500		82	36-132%			

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ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx Detection Reporting Spike Source % REC RPD Limits RPD Analyte Result Limit Units Dilution % REC Notes Limit Amount Result Limit Batch 25D1007 - EPA 3510C (Fuels/Acid Ext.) Water LCS (25D1007-BS1) Prepared: 04/24/25 11:15 Analyzed: 04/24/25 20:38 Recovery: 110 % Limits: 50-150 % Dilution: 1x Surr: o-Terphenyl (Surr) LCS Dup (25D1007-BSD1) Prepared: 04/24/25 11:15 Analyzed: 04/24/25 20:58 Q-19 NWTPH-Dx Diesel 0.391 0.0800 0.500 78 36-132% 5 30% mg/L 108 % Limits: 50-150 % Surr: o-Terphenyl (Surr) Recovery: Dilution: 1x

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ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

6028 NE 49th Ave.Project Number:Redland-2Report ID:Portland, OR 97218Project Manager:Andrew S. Blake, R.G., L.G.A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ons (Ben	zene thro	ugh Naphi	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0652 - EPA 5035A							Soi	I				
Blank (25D0652-BLK1)			Prepared	d: 04/16/25	09:00 Ana	lyzed: 04/16/	/25 12:07					
NWTPH-Gx (MS) Gasoline Range Organics	ND		5.00	mg/kg v	vet 50							
Surr: 4-Bromofluorobenzene (Sur)		Reco	very: 99 %	Limits: 5	0-150 %	Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			106 %	5	0-150 %		"					
LCS (25D0652-BS2)			Prepared	d: 04/16/25	09:00 Ana	lyzed: 04/16/	/25 11:40					
NWTPH-Gx (MS) Gasoline Range Organics	25.5		5.00	mg/kg v	vet 50	25.0		102	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 102 %	Limits: 5		Dilı	ution: 1x					
1,4-Difluorobenzene (Sur)			105 %	5	0-150 %		"					
Duplicate (25D0652-DUP1)			Prepared	d: 04/07/25	16:01 Ana	lyzed: 04/16/	/25 21:14					
QC Source Sample: Non-SDG (AS	5D1449-01)											
Gasoline Range Organics	6190		20.5	mg/kg d	lry 200		6540			6	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	ery: 110 %	Limits: 5	0-150 %	Dilı	tion: 1x					
1,4-Difluorobenzene (Sur)			107 %	5	0-150 %		"					

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental Consulting Project: Redland

 6028 NE 49th Ave.
 Project Number:
 Redland-2
 Report ID:

 Portland, OR 97218
 Project Manager:
 Andrew S. Blake, R.G., L.G.
 A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

	Gasolir	ne Range H	ydrocarbo	ons (Benz	zene thro	ugh Naph	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0680 - EPA 5030C							Wa	ter				
Blank (25D0680-BLK1)			Prepared	d: 04/16/25	14:00 Ana	lyzed: 04/16	/25 14:43					
NWTPH-Gx (MS) Gasoline Range Organics	ND		0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 94 % 105 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: 1x					
LCS (25D0680-BS2)			Prepared	d: 04/16/25	14:00 Ana	lyzed: 04/16/	/25 14:20					
NWTPH-Gx (MS) Gasoline Range Organics	0.502		0.100	mg/L	1	0.500		100	80-120%			
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 96 % 102 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: Ix					
Duplicate (25D0680-DUP1)			Prepared	d: 04/16/25	14:00 Ana	lyzed: 04/16	/25 20:44					
QC Source Sample: Non-SDG (A5	5D1463-02)											
Gasoline Range Organics	31.4		1.00	mg/L	10		32.3			3	30%	
Surr: 4-Bromofluorobenzene (Sur) 1,4-Difluorobenzene (Sur)		Reco	very: 99 % 97 %	Limits: 50	0-150 % 0-150 %	Dilı	ution: Ix					

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ORELAP ID: OR100062

Succeed Environmental Consulting

6028 NE 49th Ave. Project Number: Redland-2

Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Redland

Project:

	Gasolir	ne Range Hy	ydrocarbo	ons (Benz	ene throu	igh Naphi	thalene)	by NWTP	H-Gx			
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0703 - EPA 5030C							Wa	ter				
Blank (25D0703-BLK1)			Prepare	d: 04/17/25	11:31 Anal	yzed: 04/17/	25 11:31					
NWTPH-Gx (MS)												
Gasoline Range Organics	ND		0.100	mg/L	1							
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 93 %	Limits: 50	0-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			107 %	50	1-150 %		"					
LCS (25D0703-BS2)			Prepared	d: 04/17/25	10:00 Anal	yzed: 04/17/	25 10:23					
NWTPH-Gx (MS)												
Gasoline Range Organics	0.555		0.100	mg/L	1	0.500		111	80-120%			
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 94 %	Limits: 50	0-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			101 %	50	1-150 %		"					
Duplicate (25D0703-DUP1)			Prepared	d: 04/17/25	11:31 Anal	yzed: 04/17/	25 13:04					
QC Source Sample: Non-SDG (A5	D1525-16)											
Gasoline Range Organics	ND		1.00	mg/L	10		0.862			***	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 86 %	Limits: 50	0-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			101 %	50	-150 %		"					
Duplicate (25D0703-DUP2)			Prepared	d: 04/17/25	11:31 Anal	yzed: 04/17/	25 20:33					
QC Source Sample: Non-SDG (A5	D1486-10RI	E1)										
Gasoline Range Organics	2.92		1.00	mg/L	10		2.79			5	30%	
Surr: 4-Bromofluorobenzene (Sur)		Recov	very: 82 %	Limits: 50	0-150 %	Dilu	tion: 1x					
1,4-Difluorobenzene (Sur)			96 %	50	-150 %		"					

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

6028 NE 49th Ave. Project Number: Redland-2 Report ID:
Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0652 - EPA 5035A							Soi	il				
Blank (25D0652-BLK1)			Prepared	d: 04/16/25 0	9:00 Ana	lyzed: 04/16	5/25 12:07					
5035A/8260D												
Benzene	ND		10.0	ug/kg we	t 50							
Toluene	ND		50.0	ug/kg we	t 50							
Ethylbenzene	ND		25.0	ug/kg we								
Xylenes, total	ND		75.0	ug/kg we	t 50							
Naphthalene	ND		100	ug/kg we	t 50							
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 104 %	Limits: 80-	-120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			101 %		120 %		"					
4-Bromofluorobenzene (Surr)			96 %	79-	120 %		"					
LCS (25D0652-BS1)			Prepared	d: 04/16/25 0	9:00 Ana	lyzed: 04/16	5/25 10:45					
5035A/8260D												
Benzene	1060		10.0	ug/kg we	t 50	1000		106	80-120%			
Toluene	1000		50.0	ug/kg we	t 50	1000		100	80-120%			
Ethylbenzene	1030		25.0	ug/kg we	t 50	1000		103	80-120%			
Xylenes, total	2970		75.0	ug/kg we	t 50	3000		99	80-120%			
Naphthalene	814		100	ug/kg we	t 50	1000		81	80-120%			
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 103 %	Limits: 80-	-120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			91 %	79-	120 %		"					
Duplicate (25D0652-DUP1)			Prepared	d: 04/07/25 1	6:01 Ana	lyzed: 04/16	5/25 21:14					
QC Source Sample: Non-SDG (A5	D1449-01)											
Benzene	ND		40.9	ug/kg dry	y 200		ND				30%	
Toluene	7250		205	ug/kg dry	y 200		6980			4	30%	
Ethylbenzene	50500		102	ug/kg dry	y 200		49200			3	30%	
Xylenes, total	320000		307	ug/kg dry	y 200		319000			0.3	30%	
Naphthalene	60500		409	ug/kg dry	y 200		58900			3	30%	
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 103 %	Limits: 80-	-120 %	Dil	lution: 1x					
Toluene-d8 (Surr)			101 %	80-	120 %		"					
4-Bromofluorobenzene (Surr)			98 %	70_	120 %		"					

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ORELAP ID: OR100062

<u>Succeed Environmental Consulting</u> Project: <u>Redland</u>

6028 NE 49th Ave.

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D Detection Reporting Spike Source % REC RPD Analyte Result Limit Units Dilution Result % REC RPD Limit Notes Limit Amount Limits Batch 25D0652 - EPA 5035A Soil Matrix Spike (25D0652-MS1) Prepared: 04/13/25 09:15 Analyzed: 04/16/25 19:52 QC Source Sample: TP-5 (8.0-10.0) (A5D1429-04) 5035A/8260D 16.0 1600 Benzene 1840 50 ND 115 77-121% ug/kg dry Toluene 1710 80.0 ug/kg dry 50 1600 ND 107 77-121% Ethylbenzene 1760 40.0 1600 76-122% ug/kg dry 50 ND 110 Xylenes, total 5130 120 ug/kg dry 50 4800 ND 107 78-124% Naphthalene 1270 160 1600 ND 79 62-129% ug/kg dry 50 Surr: 1,4-Difluorobenzene (Surr) 103 % Limits: 80-120 % Recovery: Dilution: 1x Toluene-d8 (Surr) 100 % 80-120 % 79-120 % 4-Bromofluorobenzene (Surr) 90 %

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ORELAP ID: OR100062

Succeed Environmental Consulting Project: Redland

 6028 NE 49th Ave.
 Project Number:
 Redland-2
 Report ID:

 Portland, OR 97218
 Project Manager:
 Andrew S. Blake, R.G., L.G.
 A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

			BIEX+	N Compo	ounas by	EPA 8260	טו					
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0680 - EPA 5030C							Wa	ter				
Blank (25D0680-BLK1)			Prepared	1: 04/16/25	14:00 Ana	lyzed: 04/16	/25 14:43					
EPA 8260D												
Benzene	ND		0.200	ug/L	1							
Toluene	ND		1.00	ug/L	1							
Ethylbenzene	ND		0.500	ug/L	1							
Xylenes, total	ND		1.50	ug/L	1							
Naphthalene	ND		5.00	ug/L	1							
Surr: 1,4-Difluorobenzene (Surr)		Recove	ry: 106 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			104 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			99 %	80	0-120 %		"					
LCS (25D0680-BS1)			Prepared	1: 04/16/25	13:00 Ana	lyzed: 04/16/	/25 13:57					
EPA 8260D												
Benzene	20.2		0.200	ug/L	1	20.0		101	80-120%			
Toluene	19.7		1.00	ug/L	1	20.0		99	80-120%			
Ethylbenzene	21.0		0.500	ug/L	1	20.0		105	80-120%			
Xylenes, total	62.3		1.50	ug/L	1	60.0		104	80-120%			
Naphthalene	14.1		5.00	ug/L	1	20.0		71	80-120%			Q-5
Surr: 1,4-Difluorobenzene (Surr)		Recove	ry: 102 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			98 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	80	0-120 %		"					
Duplicate (25D0680-DUP1)			Prepared	1: 04/16/25	14:00 Ana	lyzed: 04/16	/25 20:44					
QC Source Sample: Non-SDG (A5)	D1463-02)											
Benzene	202		2.00	ug/L	10		193			5	30%	
Toluene	50.0		10.0	ug/L	10		47.5			5	30%	
Ethylbenzene	365		5.00	ug/L	10		354			3	30%	
Xylenes, total	165		15.0	ug/L	10		151			9	30%	
Naphthalene	4400		50.0	ug/L	10		4490			2	30%	E, Q-54
Surr: 1,4-Difluorobenzene (Surr)		Recov	very: 98 %	Limits: 80	0-120 %	Dilı	ution: 1x					
Toluene-d8 (Surr)			103 %	80	0-120 %		"					
4-Bromofluorobenzene (Surr)			94 %	9/	0-120 %		"					

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ORELAP ID: OR100062

Succeed Environmental Consulting Project: Redland

6028 NE 49th Ave.

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Project Manager: Andrew S. Blake, R.G., L.G.

QUALITY CONTROL (QC) SAMPLE RESULTS

BTEX+N Compounds by EPA 8260D Detection Reporting Spike Source % REC RPD Analyte Result Limit Units Dilution % REC RPD Notes Limit Amount Result Limits Limit Batch 25D0680 - EPA 5030C Water Matrix Spike (25D0680-MS1) Prepared: 04/16/25 14:00 Analyzed: 04/16/25 21:07 QC Source Sample: Non-SDG (A5D1499-01) EPA 8260D 0.200 20.0 Benzene 22.1 ug/L 1 ND 111 79-120% Toluene 21.4 1.00 ug/L 1 20.0 ND 107 80-121% Ethylbenzene 22.5 0.500 20.0 79-121% ug/L 1 ND 112 Xylenes, total 67.6 1.50 ug/L 60.0 ND 113 79-121% Naphthalene 20.4 5.00 20.0 ND 102 61-128% Q-54a ug/L Surr: 1,4-Difluorobenzene (Surr) 102 % Limits: 80-120 % Recovery: Dilution: 1x Toluene-d8 (Surr) 98 % 80-120 % 4-Bromofluorobenzene (Surr) 95 % 80-120 %

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ORELAP ID: OR100062

 Succeed Environmental Consulting
 Project:
 Redland

 6028 NE 49th Ave.
 Project Number:
 Redland

6028 NE 49th Ave. Project Number: Redland-2 Report ID:
Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Prepared: 04/1		lution	Spike Amount	Source Result	0/ DEC	% REC		RPD	
	17/25 11:31				% REC	Limits	RPD	Limit	Notes
	17/25 11:31			Wat	er				
0.200		1 Analy	zed: 04/17/2	25 11:31					
0.200									
	ug/L	1							
1.00	ug/L	1							
0.500	ug/L	1							
1.50	ug/L	1							
5.00	ug/L	1							Q-5
107 % Limi	its: 80-120	%	Dilu	tion: 1x					
104 %	80-120	%		"					
101 %	80-120	%		"					
Prepared: 04/1	17/25 10:00	0 Analy	zed: 04/17/	25 10:45					
0.200	ug/L	1	20.0		101	80-120%			
	ug/L	1	20.0		99	80-120%			
0.500	ug/L	1	20.0		104	80-120%			
1.50	ug/L	1	60.0		103	80-120%			
5.00	ug/L	1	20.0		68	80-120%			Q-5
101 % Limi	its: 80-120	%	Dilu	tion: 1x					
98 %	80-120	%		"					
94 %	80-120	%		"					
Prepared: 04/1	17/25 11:31	l Analy	zed: 04/17/2	25 13:04					
2.00	ug/L	10		5.10			2	30%	
10.0	ug/L	10		ND				30%	
	ug/L	10		ND				30%	
15.0	ug/L	10		ND				30%	
	ug/L	10		ND				30%	Q-5
102 % Limi	its: 80-120	%	Dilu	tion: 1x					
106 %	80-120	%		"					
101 %	80-120	%		"					
	102 % Lim 106 % 101 %	102 % Limits: 80-120 106 % 80-120 101 % 80-120	102 % Limits: 80-120 % 106 % 80-120 % 101 % 80-120 %	102 % Limits: 80-120 % Dilu 106 % 80-120 % 101 % 80-120 %	102 % Limits: 80-120 % Dilution: 1x 106 % 80-120 % "	102 % Limits: 80-120 % Dilution: 1x 106 % 80-120 % " 101 % 80-120 % "	102 % Limits: 80-120 % Dilution: 1x 106 % 80-120 % " 101 % 80-120 % "	102 % Limits: 80-120 % Dilution: 1x 106 % 80-120 % " 101 % 80-120 % "	102 % Limits: 80-120 % Dilution: 1x 106 % 80-120 % " 101 % 80-120 % "

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental Consulting Project:

6028 NE 49th Ave.

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

Redland

BTEX+N Compounds by EPA 8260D Detection Reporting % REC RPD Spike Source Analyte Result Units Dilution % REC RPD Notes Limit Limit Amount Result Limits Limit Batch 25D0703 - EPA 5030C Water Duplicate (25D0703-DUP2) Prepared: 04/17/25 11:31 Analyzed: 04/17/25 20:33 QC Source Sample: Non-SDG (A5D1486-10RE1) Benzene 2.00 ug/L 10 318 7 30% 341 Toluene ND 10.0 30% ug/L 10 ND 30% Ethylbenzene 49.1 5.00 ug/L 10 46.7 5 Xylenes, total ND 15.0 ug/L 10 ND 30% Naphthalene ND 50.0 10 ND 30% Q-54 ug/L Surr: 1,4-Difluorobenzene (Surr) 97 % Limits: 80-120 % Dilution: 1x Recovery: Toluene-d8 (Surr) 105 % 80-120 % 4-Bromofluorobenzene (Surr) 101 % 80-120 % Matrix Spike (25D0703-MS1) Prepared: 04/17/25 11:31 Analyzed: 04/17/25 16:50 V-01 QC Source Sample: Non-SDG (A5D1546-01) EPA 8260D 21.4 0.200 20.0 ND 107 Benzene ug/L 1 79-120% 20.8 80-121% Toluene 1.00 ug/L 1 20.0 ND 104 Ethylbenzene 0.500 22.1 ug/L 1 20.0 ND 110 79-121% 65.7 1.50 60.0 ND 79-121% Xylenes, total ug/L 1 110 5.00 O-54 Naphthalene 13.7 --ug/L 20.0 ND 69 61-128% Surr: 1,4-Difluorobenzene (Surr) 102 % Limits: 80-120 % Dilution: 1x Recovery: Toluene-d8 (Surr) 98 % 80-120 % 93 % 80-120 % 4-Bromofluorobenzene (Surr)

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6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

QUALITY CONTROL (QC) SAMPLE RESULTS

				Percen	t Dry Wei	ght						
Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0609 - Dry Weight F	rep (EPA	8000D)					Soi	I				
Duplicate (25D0609-DUP1)			Prepared	: 04/15/25	10:25 Anal	yzed: 04/16/	/25 05:28					
QC Source Sample: Non-SDG (AS	5D1424-01)											
% Solids	89.8		1.00	%	1		90.5			0.8	10%	
Duplicate (25D0609-DUP2)			Prepared	: 04/15/25	10:25 Anal	yzed: 04/16/	/25 05:28					
QC Source Sample: TP-2 (8.0-10.0	O) (A5D1429	<u>9-01)</u>										
<u>EPA 8000D</u> % Solids	74.6		1.00	%	1		72.0			4	10%	
Duplicate (25D0609-DUP3)			Prepared	: 04/15/25	10:25 Anal	yzed: 04/16/	/25 05:28					
QC Source Sample: Non-SDG (AS												
% Solids	91.8		1.00	%	1		91.5			0.3	10%	
Duplicate (25D0609-DUP4)			Prepared	: 04/15/25	10:25 Anal	yzed: 04/16/	/25 05:28					
OC Source Sample: Non-SDG (AS % Solids	83.8		1.00	%	1		86.5			3	10%	
Duplicate (25D0609-DUP5)			Prepared	: 04/15/25	18:45 Anal	yzed: 04/16/	/25 05:28					
QC Source Sample: Non-SDG (AS	5D1471-01) 88.8		1.00	%	1		88.6			0.2	10%	
Duplicate (25D0609-DUP6)			Prepared	: 04/15/25	18:45 Anal	yzed: 04/16/	/25 05:28					
QC Source Sample: Non-SDG (AS	5D1474-01)											
% Solids	79.8		1.00	%	1		79.9			0.1	10%	

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

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6028 NE 49th Ave.

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

A5D1429 - 04 25 25 1457

SAMPLE PREPARATION INFORMATION

		Diesel an	d/or Oil Hydrocarbor	s by NWTPH-Dx			
Prep: EPA 3510C (Fu	iels/Acid Ext.)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D1007							
A5D1429-05	Water	NWTPH-Dx	04/13/25 10:00	04/24/25 11:15	1020 mL/5 mL	1000mL/5mL	0.98
Prep: EPA 3546 (Fue	els)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0748							
A5D1429-01	Soil	NWTPH-Dx	04/13/25 08:15	04/18/25 07:12	11.17g/5mL	10g/5mL	0.90
A5D1429-02	Soil	NWTPH-Dx	04/13/25 08:30	04/18/25 07:12	11.08g/5mL	10g/5mL	0.90
A5D1429-03	Soil	NWTPH-Dx	04/13/25 08:45	04/18/25 07:12	11.32g/5mL	10g/5mL	0.88
A5D1429-04	Soil	NWTPH-Dx	04/13/25 09:15	04/18/25 07:12	11.6g/5mL	10g/5mL	0.86

	Gas	oline Range Hydrocarb	oons (Benzene thro	ugh Naphthalene) b	y NWTPH-Gx		·
Prep: EPA 5030C					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0703							
A5D1429-05RE1	Water	NWTPH-Gx (MS)	04/13/25 10:00	04/17/25 11:34	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0652							
A5D1429-01	Soil	NWTPH-Gx (MS)	04/13/25 08:15	04/13/25 08:15	4.33g/5mL	5g/5mL	1.15
A5D1429-02	Soil	NWTPH-Gx (MS)	04/13/25 08:30	04/13/25 08:30	3.76g/5mL	5g/5mL	1.33
A5D1429-03	Soil	NWTPH-Gx (MS)	04/13/25 08:45	04/13/25 08:45	4.15g/5mL	5g/5mL	1.20
A5D1429-04	Soil	NWTPH-Gx (MS)	04/13/25 09:15	04/13/25 09:15	5.36g/5mL	5g/5mL	0.93

		ВТЕ	X+N Compounds by	EPA 8260D			
Prep: EPA 5030C Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25D0703 A5D1429-05RE1	Water	EPA 8260D	04/13/25 10:00	04/17/25 11:34	5mL/5mL	5mL/5mL	1.00
Prep: EPA 5035A	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep

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Portland, OR 97218

ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Report ID:

Succeed Environmental Consulting Project: Redland

6028 NE 49th Ave. Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

SAMPLE PREPARATION INFORMATION

		ВТЕ	X+N Compounds by	EPA 8260D			
Prep: EPA 5035A					Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
A5D1429-01	Soil	5035A/8260D	04/13/25 08:15	04/13/25 08:15	4.33g/5mL	5g/5mL	1.15
A5D1429-02	Soil	5035A/8260D	04/13/25 08:30	04/13/25 08:30	3.76g/5mL	5g/5mL	1.33
A5D1429-03	Soil	5035A/8260D	04/13/25 08:45	04/13/25 08:45	4.15g/5mL	5g/5mL	1.20
A5D1429-04	Soil	5035A/8260D	04/13/25 09:15	04/13/25 09:15	5.36g/5mL	5g/5mL	0.93

			Percent Dry We	ight			
Prep: Dry Weight Pre	ep (EPA 8000D)				Sample	Default	RL Prep
Lab Number	Matrix	Method	Sampled	Prepared	Initial/Final	Initial/Final	Factor
Batch: 25D0609							
A5D1429-01	Soil	EPA 8000D	04/13/25 08:15	04/15/25 10:25	1g	1g	1.00
A5D1429-02	Soil	EPA 8000D	04/13/25 08:30	04/15/25 10:25	1g	1g	1.00
A5D1429-03	Soil	EPA 8000D	04/13/25 08:45	04/15/25 10:25	1g	1g	1.00
A5D1429-04	Soil	EPA 8000D	04/13/25 09:15	04/15/25 10:25	1g	1g	1.00

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

QUALIFIER DEFINITIONS

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

Apex Laboratories

CONT The Sample Container provided for this analysis was not provided by Apex Laboratories, and has not been verified as part of the Apex Quality System.

E Estimated Value. The result is above the calibration range of the instrument.

Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Q-54 Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -12%. The results are reported as Estimated Values.

Q-54a Daily Continuing Calibration Verification recovery for this analyte failed the +/-20% criteria listed in EPA method 8260/8270 by -9%. The results are reported as Estimated Values.

Q-55 Daily CCV/LCS recovery for this analyte was below the +/-20% criteria listed in EPA 8260, however there is adequate sensitivity to ensure detection at the reporting level.

S-05 Surrogate recovery is estimated due to sample dilution required for high analyte concentration and/or matrix interference.

V-01 Sample aliquot taken from VOA vial with headspace (air bubble greater than 6 mm diameter).

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Report ID:

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

REPORTING NOTES AND CONVENTIONS:

Abbreviations:

Portland, OR 97218

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)

Validated 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 and Detection Limits: Default Limits

Default Reporting and Detection Limits are based on 100% dry weight with the minimum dilution for the analysis. Reporting and Detection Limits are raised due to moisture content, additional dilutions required for analysis, matrix interferences and in other cases, as necessary.

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).

Apex Laboratories

Philip Newberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 0

Report ID: A5D1429 - 04 25 25 1457

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 ½ 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.

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg



Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2

6028 NE 49th Ave. Project Number: Redland-2 Report ID:
Portland, OR 97218 Project Manager: Andrew S. Blake, R.G., L.G. A5D1429 - 04 25 25 1457

Decanted Samples:

Soils/Sediments:

Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples

Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)

Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

Apex Laboratories

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental ConsultingProject:Redland6028 NE 49th Ave.Project Number:Redland-2Report ID:Portland, OR 97218Project Manager:Andrew S. Blake, R.G., L.G.A5D1429 - 04 25 25 1457

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 <u>exception</u> 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 provded by the client or sampler, and fall outside of Apex Laboratories' Scope of Accreditation.

Apex Laboratories

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Philip Nerenberg, Lab Director

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental Consulting

6028 NE 49th Ave. Portland, OR 97218 Project: Redland

Ргоден Атсћіче

Project Number: Redland-2

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

Company:

ALEA LADS 6700 SW Sandburg St., Tigard, OR 97223 Ph.: 503-718-2323	97223 Ph.	503-718	-2323		ر	CHAIN OF CUSTODY		5	<u>ي</u>	3	2	5	_				Lab#	Lab # ///////		200	4 0	Ŧ
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Address: 1651 NE Broiling	- 1	#211,	97232	,7	-R	Phone: 971-371-0404	18.16	0-1	704	- 2	Email: Oblake @ Sxxx	3	1/2	20	KKC	Leaver	100000000000000000000000000000000000000		1	١,	ı	
Sampled by: A , Blule	-	•						- 100						4	ALYS	AVALYSIS REQUEST				154	1.045	
Site Location: State OK County Clack	Е	3	жіх	TPH-HCID CONTAINERS	TPH-Dz	い+なび3+ x2-H4T	BLEX	BBDW AOC	Halo VOCs	SIM LVH ² AOC ² Enii List	Semi-Vols Full List	PCB ₉	Pesticides	(8) alataM A3	(£1) alateM vii	b, As, Ba, Bc, Cd, r, Co, Cu, Fe, Pb, g, Wa, Tl, V, Zn g, Wa, Tl, V, Zn g, Wa, Tl, V, Zn	(8) zigisM q					əlqmas
SAMPLE ID	TAG	IMIT ?	-											BCB		Ca. C						Hold S
7 P-3 (8.0-10.0) 7/8 6/3	1/1/2/25	830		+	< ×			\top	+	+	+						\top				-	
TP+ (810-100)	243 52/5/4	SYS		7	+	<u> </u>		+		+	+-	4-			1		+		-		-	_
TP.5(8.0-10.0)	4,22,915		55 4	_	X			T		+	-	-	1_		T			-	-			
TP-1	1/2/2 JOO	8	3	N	M	X		\Box	\vdash	\vdash												
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Philip Nerenberg, Lab Director

Philip Nevenberg

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Apex Laboratories, LLC

6700 S.W. Sandburg Street Tigard, OR 97223 503-718-2323

ORELAP ID: OR100062

Succeed Environmental Consulting

Project:

Project: Redland
Project Number: Redland-2

6028 NE 49th Ave. Portland, OR 97218

Project Manager: Andrew S. Blake, R.G., L.G.

Report ID: A5D1429 - 04 25 25 1457

	Element WO#: A5 DIY24
Project/Project #:	Red(and-2
Delivery Info:	
Date/time received:	4/14/25 @ 1501 By: KN
Delivered by: Apex0	Client ESS FedEx UPS Radio Morgan SDS Evergreen Other
From USDA Regulated	d Origin? Yes No
Cooler Inspection	Date/time inspected: 414/25 @ 1501 By: KN
Chain of Custody inclu	I statement to the
Signed/dated by client	
Contains USDA Reg. S	Soils? YesNo √ Unsure (email RegSoils)
	Cooler #1 Cooler #2 Cooler #3 Cooler #4 Cooler #5 Cooler #6 Cooler #7
Temperature (°C)	51 (d
Custody seals? (Y/N)	
Received on ice? (Y/N	
Temp. blanks? (Y/N)	
Ice type: (Gel/Real/Oth	
Condition (In/Out):	<u> </u>
Green dots applied to of Out of temperature san Sample Inspection:	Possible reason why: out of temperature samples? Yes No pples form initiated? Yes No Date/time inspected: 444 @ 1636 By: No Comments:
	ree? Yes No Comments:
Bottle labels/COCs agr	
COC/container discrep	ancies form initiated? Yes No No Comments:
COC/container discrep	ancies form initiated? Yes No Comments:
COC/container discrep Containers/volumes rec	
COC/container discrep Containers/volumes rec	ceived appropriate for analysis? YesNo Comments:
COC/container discrep Containers/volumes red Do VOA vials have vis Comments	sible headspace? Yes No Comments:
COC/container discrep Containers/volumes red Do VOA vials have vis Comments	ceived appropriate for analysis? YesNo Comments:

Apex Laboratories

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Philip Nerenberg, Lab Director

Philip Nevenberg

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APPENDIX C

SOIL DISPOSAL DOCUMENTATION



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1697140

Customer Name BRAUER1820 LLC BRAUER1820 LLC Carrier MATTON UTILITY Ticket Date 09/19/2023 Vehicle# 3008-PUP

Ticket Date 09/19/2023
Payment Type Credit Account
Manual Ticket#

Hauling Ticket#

Route

State Waste Code Manifest NA

Destination

PO

Profile

1411720R (PETROLEUM CONTAMINATED SOIL)

Generator

133-BRAUER1820 LLC S REDLAND R BRAUER1820 LLC S REDLAND RD & S FISHERS MILL

Container Driver

Gen EPA ID

Check#

ERIC

Billing # 0005010

09/19/2023 08:55:53 In Out 09/19/2023 09:40:14 Outbound

Scale Inbound 1

Operator mmalone2 MRAMOS14

Inbound

Gross Tare Net Tons

Volume

38640 lb 53840 lb 26.92

92480 lb

Comments

Consumer Comments? We want to know. Please call.

Product	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1 Cont Soil Pet-RGC- 2 ENERGY-Energy Surc		26.92	Tons				CLACK-IN

Total Tax Total Ticket

Driver's Signature



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1697273

Volume

Customer Name BRAUER1820 LLC BRAUER1820 LLC Carrier MATTON UTILITY Ticket Date 09/20/2023 Vehicle# 3008-PUP

Ticket Date 09/20/2023 Payment Type Credit Account

Manual Ticket# Hauling Ticket#

Route

State Waste Code Manifest NA

Destination

PO

Profile 141172OR (PETROLEUM CONTAMINATED SOIL)
Generator 133-BRAUER1820 LLC S REDLAND R BRAUER1820 LLC S REDLAND RD & S FISHERS MILL

Scale Time

In 09/20/2023 06:34:24 Out 09/20/2023 06:34:24 09/20/2023 06:34:24

Inbound 1

Operator mramos14 mramos14

Container Driver ERIC

Gen EPA ID

Billing # 0005010

Check#

Inbound Gross

Tare

103200 lb 38640 lb 64560 lb

Net 32.28 Tons

Comments

Consumer Comments? We want to know. Please call.

Proc	luct	LD%	Qty	MOU	Rate	Tax	Amount	Origin
1 2	Cont Soil Pet-RGC- ENERGY-Energy Surc		32.28	Tons				CLACK-IN

Total Tax Total Ticket

Driver's Signature



Hillsboro Landfill, Inc 3205 SE Minter Bridge Hillsboro, OR, 97123 Ph: (503)-640-9427

Original Ticket# 1697365

Volume

Customer Name BRAUER1820 LLC BRAUER1820 LLC Carrier MATTON UTILITY Vehicle# 3008-PUP

Ticket Date 09/20/2023
Payment Type Credit Account
Manual Ticket#

Hauling Ticket# Route

State Waste Code Manifest NA

Destination PO

Profile 141172OR (PETROLEUM CONTAMINATED SOIL)
Generator 133-BRAUER1820 LLC S REDLAND R BRAUER1820 LLC S REDLAND RD & S FISHERS MILL

Container

Gen EPA ID

Driver

Check#

Grid

ERIC

Billing # 0005010

Scale Operator Inbound Gross 107920 lb In 09/20/2023 11:05:55 38640 lb Inbound 1 LGILLILA Tare Out 09/20/2023 11:05:55 LGILLILA Net 69280 lb 34.64 Tons

Comments

Consumer Comments? We want to know. Please call.

Prod	duct	LD%	Qty	UOM	Rate	Tax	Amount	Origin
1 2	Cont Soil Pet-RGC- ENERGY-Energy Surc		34.64	Tons				CLACK-IN CLACK-IN

Total Tax Total Ticket

Driver's Signature