



**SUCCEED
ENVIRONMENTAL
CONSULTING, LLC**



SUBSURFACE INVESTIGATION REPORT

556 Murlark Ave NW
Salem, Oregon 97321

Prepared For:
Baxters North America

May 23, 2025
Project ID: BNA-1-05



**SUCCEED
ENVIRONMENTAL
CONSULTING, LLC**

May 23, 2025

Baxters North America
4700 Creek Road
Cincinnati, OH 45242

Attention: Megan Salyers

SUBSURFACE INVESTIGATION REPORT

556 Murlark Ave NW
Salem, Oregon 97321
SEC Project: BNA-1-05

Succeed Environmental Consulting LLC is pleased to submit the results of our supplemental subsurface investigation of the above-referenced property (Subject Property). This report is intended to satisfy a recent request for supplemental information, such that DEQ can issue a determination of No Further Action for the Subject Property. Contractual terms for our services are contained in our proposal dated April 2, 2025. We appreciate the opportunity to be of service to you. Please contact us if you have questions regarding this report.

Sincerely,

Succeed Environmental Consulting LLC

A handwritten signature in blue ink that reads "Andrew Blake".

Andrew S. Blake, R.G., L.G.
Principal Geologist

cc: Tina Elayer, Oregon Department of Environmental Quality
Lorena Daniele, Baxters North America

ASB
Attachments
One electronic copy submitted

TABLE OF CONTENTS

1.0	INTRODUCTION	1
2.0	BACKGROUND	1
2.1	Site Development History	1
2.2	Site Regulatory History	2
2.3	Stormwater Management	3
3.0	PURPOSE AND SCOPE OF SERVICES	3
4.0	FIELD ACTIVITIES	4
4.1	<i>SUBSURFACE BORINGS</i>	5
4.1.1	Subsurface Conditions	5
4.1.2	Soil Sample Selection and Field Screening	5
4.1.3	Groundwater Sample Selection and Laboratory Submittal	5
4.2	<i>SUBSLAB VAPOR SAMPLE COLLECTION</i>	5
5.0	CHEMICAL ANALYTICAL PROGRAM	6
6.0	REGULATORY SCREENING LEVELS	6
7.0	SOIL CHEMICAL ANALYTICAL RESULTS	7
7.1	Petroleum Hydrocarbons	7
7.2	PCBs	7
8.0	GROUNDWATER CHEMICAL ANALYTICAL RESULTS	7
8.1	Petroleum Hydrocarbons	7
8.2	PCBs	8
9.0	VAPOR SAMPLE CHEMICAL ANALYTICAL RESULTS	8
10.0	CONCLUSIONS AND RECOMMENDATIONS	9
13.0	LIMITATIONS	10

FIGURES:	Vicinity Map	Figure 1
	Site Plan	Figure 2
	Overview of Stormwater Drainage Features	Figure 3

Tables:	Summary of Soil Sample Chemical Analytical Results	Table 1
	Summary of Groundwater Sample Chemical Analytical Results	Table 2
	Summary of Vapor Sample Chemical Analytical Results	Table 3

APPENDICES:	Appendix A	Exploration Program and Boring Logs
	Appendix B	Chemical Analytical Laboratory Reports

ACRONYMS AND ABBREVIATIONS

1.0 INTRODUCTION

This report summarizes the results of environmental subsurface investigation activities conducted at 556 Murlark Ave NW in Salem, Oregon (Subject Property). This report also includes supplemental information that has been requested by DEQ following Voluntary Cleanup Program intake in 2024. The approximately 7.64-acre commercial/industrial Subject Property includes Polk County Tax Lot 572206 and is occupied by an approximate 165,000 SF production, cold storage, and office building that was built around 1972 with surrounding paved and unpaved parking areas. The approximate cold storage area is shown on Figure 2 and was originally constructed with a radiant floor heating system that circulated hot oil beneath the floor to protect the concrete slab from damage associated with low the temperatures of the freezer.

2.0 BACKGROUND

SEC's understanding of the history and subsurface condition of the Subject Property is based on the following documents, and is discussed below:

- Oregon Department of Environmental Quality (DEQ) Pollution Complaint No.WRS-11-0062, dated April 13, 2011
- Email Correspondence Re: Truitt Brothers-Salem, OR between Oregon DEQ and U.S. E.P.A. dated April 13, 2011
- Oregon Department of Environmental Quality (DEQ) letter Re: Complaint Investigation; HW-WRS-11-0062; Truitt Bros.; OHWIME #8795, dated July 28, 2011
- Email Correspondence Re: TBI Leak between Seneca Foods Corporation personnel and Truitt Bros. personnel, dated May 20, 2016, and May 23, 2016
- *Phase I Environmental Site Assessment; Truitt Facility; 556 Murlark Ave, 845 Bassett Street NW & 925 Patterson Street NW; Salem Oregon* prepared by GZI of Trumbull, CT, dated November 23, 2020.
- *Order of Magnitude Estimate of Cost; Truitt Facility Subslab Transformer Oil Release; 556 Murlark Ave; Salem Oregon* prepared by GZI of Trumbull, CT, dated December 7, 2020.
- *Property Condition Assessment; Truitt Brothers; 556 Murlark Avenue, 845 Bassett St NW and 925 Patterson St NW; Salem Oregon* prepared by Vieau Associates of Edina, MN, dated December 14, 2020.
- *Sampling and Analysis Plan; 556 Murlark Ave NW, Salem, Oregon 97321*, prepared by SEC, dated June 1, 2023.
- *Subsurface Investigation Report; 556 Murlark Ave NW, Salem, Oregon 97321*, prepared by SEC, dated September 27, 2023.

2.1 Site Development History

Our understanding of the development history of the Subject Property is based on the above-referenced Phase I ESA, which was conducted for the Subject Property and several other surrounding properties. Since the former Phase I ESA report included extensive descriptions of other properties, this section has been prepared in lieu of the full Phase I ESA Report, to provide DEQ with a clear summary of the development history of the Subject Property. Based on our review, the following narrative and



summary table describe the historical occupancy and use of the Subject Property.

The Subject Property consisted of vacant land in the 1920s and 1930s. By the early 1940s, the Subject Property was occupied by the Salem Box Company, who built a building (small sawmill and box assembly operation) in the southwestern portion of the site. The Salem Box Company operated at the Subject Property through the 1940s and into the 1950s. By 1955, the Subject Property was occupied by Oregon Pulp & Paper & E&E Godsey. SEC did not identify specific details regarding on-site operations. However, based on our review of aerial photographs taken between 1955 and 1970, only small buildings were located in the western portion of the Subject Property and site operations appeared to be minimal.

By 1969, the Subject Property was constructed to the current approximate configuration for use as a food processing and storage facility. The Subject Property appears to have remained generally unchanged since that time.

DATE	OCCUPANT	KNOWN USE
2025 - 2020	Baxter's North America	Subject Property was developed to the current configuration for use as a food processing and storage facility.
2020 - 2003	Truitt Brothers	
2003 - 2000	Chitaqua Processed Foods, LLC	
1999 - 1985	Agripac	
1985 ~ 1969	Blue Lake Packers Producers Coop	
1969 - 1955	Oregon Pulp & Paper E&E Godsey	Unknown ¹
1940s-1950s	Salem Box Co.	Lumber Planing, Cutting, & Storage ²
1920s-1930s	NA	Vacant

Notes:

1. Between 1955 and 1970, small buildings were located in the western portion of the Subject Property. Based on our review of aerial photographs, site operations appeared to be minimal.
2. A building associated with a portion of the Salem Box Co. (small lumber mill) was located in southern portion of site.

2.2 Site Regulatory History

In 2011, DEQ received a complaint alleging that an unknown quantity of oil likely leaked from the above-noted radiant heating system coils. Following an onsite inspection, DEQ listed the Subject Property on the Environmental Cleanup Site Information (ECSI) database (File No.5638). Truitt Bros. (the former property owner) temporarily deactivated portions of the radiant heating system, which exhibited signs of leaking (discussed further herein). Sometime after 2011, the heating system was temporarily reactivated, but it was ultimately deactivated in 2016. Since that time, the oil was removed from the system, and was replaced by technology that does not utilize petroleum hydrocarbons.

In 2023, SEC began investigating conditions at the Subject Property and the site was enrolled in the DEQ Voluntary Cleanup Program (VCP) in 2024. The results of all subsurface investigation activities



conducted at the Subject Property are included in this report.

It should be noted that six groundwater monitoring wells were historically installed at the Subject Property as part of an off-site investigation and cleanup of a release that occurred at a nearby property (ECSI No. 3001). ECSI File No. 3001 was addressed to the satisfaction of DEQ, who closed their file on the site. These monitoring wells were decommissioned in 2024. SEC sampled these wells for the presence of diesel- and oil-range hydrocarbons prior to their decommissioning with no oil-range detections found, which discussed herein.

It should also be noted that in 1988, USTs were decommissioned at a neighboring property (845 Bassett Street), but no USTs have been used at the Subject Property.

2.3 Stormwater Management

Stormwater that accumulates at the Subject Property is expected to (1) infiltrate on-site or (2) flow towards catch basins located along the northern, western, and southern boundaries of the property, summarized as follows.

- The southern unpaved portions of the Subject Property allow for infiltration of stormwater that accumulates during rainfall events. Roof drains located adjacent to the unpaved portions of the site also discharge stormwater into the unpaved area.
- The northern paved portion of the Subject Property is equipped with catch basins that connect to the municipal conveyance. Baxters North America personnel noted that the City occasionally samples stormwater from these catch basins.
- A stormwater detention basin is located in the northeastern portion of the Subject Property and receives (1) surface water runoff from the adjacent parking lots, and (2) stormwater runoff from adjacent nearby roof drains.

The approximate locations of stormwater catch basins, significant unpaved areas, and the stormwater detention basin are presented on Figure 3.

3.0 PURPOSE AND SCOPE OF SERVICES

Subsurface investigations were conducted in 2023 to evaluate environmental subsurface conditions near the perimeter of the cold storage area, beneath the central and northern portions of the cold storage area, and in on-site groundwater monitoring wells, which were installed during an investigation associated with an unrelated nearby site (Section 2.2).

No evidence of contamination was identified at the Subject Property. Specifically, since the alleged release involved oil from a radiant floor system (Section 2.2), contaminants of potential concern (COPCs) identified by SEC included diesel- and oil-range hydrocarbons and polychlorinated biphenyls (PCBs). Diesel- and oil-range hydrocarbons were not detected soil, groundwater, or vapor samples collected during SEC's investigation. In addition, PCBs were not detected at the Subject Property in soil samples collected during SEC's investigation.



As noted in Section 2.2, Subject Property was subsequently enrolled in the VCP in pursuit of a determination of No Further Action from DEQ. DEQ reviewed SEC's 2023 Subsurface Investigation report and noted the following:

- No contamination was detected at the Subject Property at concentrations exceeding laboratory detection limits. However, the laboratory reporting limits for diesel-range hydrocarbons ranged between 0.187 mg/L and 0.263 mg/L, which were consistent with, but slightly greater than DEQ's most stringent risk-based concentration (RBC) for residential drinking water (0.100 mg/L).
- DEQ was also concerned about potential PCB contamination from residual PCBs in pipes due to the facility's use before 1980 and requested additional sampling and analysis to rule out the presence of PCBs, even though initial tests had non-detect results. Further, since seven soil samples were analyzed for PCBs (with no detections), the potential presence of PCBs was not suspected in groundwater.
- DEQ also noted that there was one soil vapor sample collected and acknowledged that no contamination was identified. However, while the vapor sample did not exceed screening levels or detection limits for diesel constituents, it did not provide enough information for DEQ to provide a no further action determination.

The following scope of services was conducted by SEC at the request of Baxters North America and DEQ in order to provide greater certainty for their issuance of a No Further Action determination for the Subject Property:

- Coordinated and managed the field investigation, including utility checks, Subject Property access authorizations, access preparations, and scheduling of subcontractors.
- Contacted the Oregon One-Call Utility Notification Center to mark the location of public utilities beneath the ROWs surrounding the Subject Property.
- Subcontracted Pacific Northwest Locates of Milwaukie, Oregon to clear subsurface boring locations of underground utilities prior to drilling.
- Subcontracted Holt Drilling of Vancouver, Washington, to advance three (3) additional direct-push explorations (DP-12 through DP-14) to depths up to 25.0 feet BGS at the Subject Property.
- Collected continuous soil samples from each exploration for visual identification and field screening. Field screening consisted of visual observation, the use of a photoionization detector (PID), and water sheen testing.
- Collected three additional soil vapor samples (SV-02 through SV-4) at the Subject Property.
- Submitted the selected soil, groundwater, and vapor samples to Apex Laboratories of Tigard, Oregon, or Friedman & Bruya, of Seattle, Washington for chemical analysis.
- Following sampling, abandoned each exploration by repairing the ground surface, as appropriate.
- Prepared this report that presents our findings and provides conclusions and recommendations.

4.0 FIELD ACTIVITIES

Field activities conducted by SEC on April 29, 2025 consisted of the collection of groundwater samples from three (3) direct-push borings (DP-12 through DP-14), and the collection of three (3)



sub-slab vapor samples (SV-2 through SV-4), as discussed in the following sections. All exploration locations conducted by SEC are presented on Figure 2.

4.1 SUBSURFACE BORINGS

On April 29, 2025, SEC advanced direct-push borings DP-12 through DP-14 to evaluate subsurface conditions beneath the Subject Property. The borings were advanced to depths of up to 25.0 feet BGS using direct-push drilling equipment owned and operated by Holt Drilling of Vancouver, Washington. SEC personnel observed the exploration activities and collected field samples for soil classification and field screening purposes. A description of our field exploration and all exploration logs generated during investigation activities at the Subject Property are presented in Appendix A.

4.1.1 Subsurface Conditions

Soil beneath the Subject Property is generally capped by a layer of asphalt, gravel, or concrete. A thin layer of fill material was observed beneath exterior areas during our explorations, and approximately four to five feet of fill material was observed in interior areas. The fill material generally consists of mixed gravel and silt with varying sand. Native subsurface soil encountered in the explorations primarily consisted of silt with varying clay and sand to a depth of approximately 20.0- to 25.0-feet below the ground surface (BGS), where gravel underlies site soil.

Groundwater was encountered during the April 2025 investigation at depths ranging between approximately 15' and 20' Bgs, which is consistent with groundwater depths encountered during 2023 exploration activities (ranging between 13' and 22' BGS).

4.1.2 Soil Sample Selection and Field Screening

Soil samples were collected from each boring and screened in the field using visual examination, water sheen screening, and headspace vapor screening using a hand-held PID. Petroleum-like sheens, discoloration, staining, or odors were not observed in the soil obtained by SEC during the investigation.

4.1.3 Groundwater Sample Selection and Laboratory Submittal

Groundwater samples were collected from borings DP-12 through DP-14 using equipment that is owned and operated by Holt Drilling. Holt placed new disposable 3/8-inch polyethylene tubing into temporary wells to depths of approximately three to five feet above the bottom of each well. Water was slowly purged using a peristaltic pump.

Upon purging each well, SEC collected groundwater samples directly from the tubing into laboratory-prepared sample containers. The selected groundwater samples collected by SEC were immediately placed in coolers with ice and submitted to the chemical analytical laboratory following general chain-of-custody procedures.

4.2 SUBSLAB VAPOR SAMPLE COLLECTION

On April 29, 2025, SEC collected three soil vapor samples (SV-02 through SV-04) from the Subject Property at the approximate locations shown on Figure 2. The samples were collected as follows:

- At vapor sample locations SV-02 and SV-03, Holt Drilling advanced a decontaminated



GeoProbe PRT™ sample probe connected to disposable polytetrafluoroethylene tubing to an approximate depth of 5.0-feet BGS. At vapor sample location SV-04, SEC Advanced a decontaminated stainless-steel soil gas probe connected to disposable polytetrafluoroethylene tubing to an approximate depth of 0.5-feet BGS.

- Sealed the annular space between the vapor point and the boring sidewall with hydrated bentonite to minimize ambient air migration into the sampling zone.
- Installed a leak-check system at the vapor sample location. Specifically, the leak-check system was installed as follows:
 - Dedicated tubing was attached to the sample point and connected to the sampling manifold.
 - Swagelok™ fittings were used to create a closed system.
 - Connections and fittings were wrapped with cloths soaked with isopropyl alcohol. 2-propanol was not detected or was detected in the laboratory samples at a concentration of less than 0.01 percent, indicating the sampling train was airtight.
- Approximately 30 minutes after installing the sampling train, the sample was collected in a laboratory-supplied TO-15 sorbent tube equipped with a flow controller. During this time, approximately one liter of air was drawn through the sorbent tube at a rate of approximately 200 ml/min.

The vapor sample was transported under chain-of-custody procedures to Friedman & Bruya of Seattle, Washington.

5.0 CHEMICAL ANALYTICAL PROGRAM

The samples submitted by SEC were received by Apex Laboratories of Tigard, Oregon and Friedman & Bruya, of Seattle Washington, with no quality control exceptions noted. The selected samples were analyzed for one or more of the following:

- Diesel- and oil-range organics by Method NWTPH-Dx (Groundwater)
- PCBs by EPA Method 8082A (Groundwater)
- Diesel Fuel Range Hydrocarbons by EPA Method TO-17 (Vapor)

The chemical analytical results from this and all previous investigations are summarized in Tables 1 through 3 and discussed (as appropriate) in the following sections. Chemical analytical program details, laboratory reports, and chain-of-custody documentation are presented in Appendix B.

6.0 REGULATORY SCREENING LEVELS

Based on its current use and zoning designation (City of Salem MU-III), it is our understanding that the future land use of the property is likely to remain as commercial. We also understand that groundwater beneath the Subject Property is not utilized for human consumption (drinking water in the Subject Property vicinity is provided by the City of Salem. Based on the foregoing, it is our professional opinion that the following DEQ risk-based concentrations (RBCs) are appropriate for comparison of the chemical analytical results from this investigation:



- DEQ RBCs for soil ingestion, dermal contact, and inhalation:
 - occupational receptor scenario,
 - construction worker receptor scenario, and
 - excavation worker receptor scenario.
- DEQ RBCs for volatilization from soil and groundwater to outdoor air:
 - occupational receptor scenario.
- DEQ RBCs for vapor intrusion into buildings from groundwater:
 - occupational receptor scenario.
- DEQ RBCs for groundwater in excavation:
 - construction and excavation worker receptor scenario
- DEQ RBCs for vapor intrusion into buildings from soil gas:
 - chronic and acute screening values: commercial scenario

At the request of DEQ, SEC has also included a comparison of the analytical data to residential screening levels in our analysis. Additionally, although the installation of any drinking water wells at the Subject Property would not be allowed in Salem (regardless of groundwater quality), SEC has also included a comparison of RBCs for (1) ingestion and inhalation of tap water and (2) leaching to groundwater to our analysis.

A comparison of the chemical analytical results to the above-noted regulatory screening levels are presented in Tables 1 through 3 and are discussed in the following sections.

7.0 SOIL CHEMICAL ANALYTICAL RESULTS

7.1 Petroleum Hydrocarbons

Nineteen (19) soil samples¹ were analyzed for diesel-, and oil-range organics by Method NWTPH-Dx. Petroleum hydrocarbons were not detected in any of these samples. The laboratory reporting limits were below all DEQ RBCs. Since no oil-range organics were detected, additional analysis of soil for PAHs was not required or conducted.

7.2 PCBs

Seven (7) soil samples² were analyzed for PCBs by EPA Method 8082A. PCBs were not detected in any of these samples. The laboratory reporting limits were below all DEQ RBCs.

8.0 GROUNDWATER CHEMICAL ANALYTICAL RESULTS

8.1 Petroleum Hydrocarbons

Eleven (11) groundwater samples³ were analyzed for diesel-, and oil-range organics by Method NWTPH-Dx. Petroleum hydrocarbons were not detected in any of these samples.

¹ DP-1(3.0-4.0), DP-1(15.0-17.0), DP-2(10.0-12.0), DP-2(16.0-18.0), DP-3(15.0-17.0), DP-4(6.0-8.0), DP-5(10.0-12.0), DP-5(18.0-20.0), DP-6(12.0-14.0), DP-7(10.0-11.0), DP-7(17.0-18.0), DP-8(4.0-6.0), DP-8(12.0-14.0), DP-9(3.0-4.0), DP-9(14.0-16.0), DP-10(4.0-6.0), DP-11(2.0-3.0), and DP-11(12.0-13.0)

² DP-1(15.0-17.0), DP-3(15.0-17.0), DP-5(18.0-20.0), DP-7(10.0-11.0), DP-9(3.0-4.0), DP-10(4.0-6.0), and DP-11(2.0-3.0)

³ MW-1, MW-2, MW-3, MW-4, MW-7, MW-8, DP-4, DP-6, DP-12, DP-13, and DP-14



Although not detected in any sample at the site, the diesel-range hydrocarbon laboratory reporting limits associated with the 2023 investigation ranged between 0.187 mg/L and 0.263 mg/L, which were consistent with, but slightly greater than DEQ's most stringent risk-based concentration (RBC) for residential drinking water (0.100 mg/L).

In order to provide DEQ with greater certainty for their issuance of a No Further Action determination for the Subject Property, the 2025 groundwater samples were analyzed using a lower laboratory detection limit. The diesel-range hydrocarbon laboratory detection limits associated with the 2025 investigation ranged between 0.0748 mg/L and 0.0755 mg/L, which is less than the residential drinking water RBC of 0.100 mg/L. Based on the results of our investigation, groundwater beneath the Subject Property is not impacted by diesel- or oil-range hydrocarbons.

8.2 PCBs

All three (3) of the April 2025 groundwater samples⁴ were analyzed for PCBs by EPA Method 8082A. PCBs were not detected in any of these samples. The laboratory detection limits were below all appropriate DEQ RBCs.

Please note that the installation of any new drinking water wells at the Subject Property would not be allowed in Salem (regardless of groundwater quality). However, SEC also included a comparison of RBCs for ingestion and inhalation of tap water at the request of DEQ. For PCBs, the residential and occupational RBCs for tap water ingestion and inhalation is currently established at 0.000006 mg/L and 0.000028 mg/L (approximately 6 and 28 parts per trillion, respectively).

No PCBs were detected in the groundwater samples submitted for analysis, with the laboratory reporting limits ranging between 0.0000472 mg/L and 0.0000505 mg/L (approximately 47.2 to 50.5 parts per trillion). Although the laboratory MDLs are slightly greater than the drinking water RBCs, these values (1) are generally consistent with the occupational drinking water RBC and (2) are within an order of magnitude of the residential drinking water RBC.

SEC contacted Philip Nerenberg (the founder of Apex Laboratories), who state that an MDL of 6 parts per trillion is not yet achievable by Apex. Based on the foregoing and the fact that no PCB contamination has been detected at the Subject Property, it is our professional opinion that a discrepancy of 0.0000192 mg/L to 0.0000412 mg/L between the laboratory RBCs and the MDL is considered insignificant.

9.0 VAPOR SAMPLE CHEMICAL ANALYTICAL RESULTS

Vapor samples SV-01 through SV-04 were analyzed for diesel-range organics by Method TO-17. Diesel was not detected at concentrations greater than laboratory RDLs, which were less than comparable RBCs in the sample submitted for analysis. Oil-range hydrocarbons are not considered volatile.

⁴ Groundwater Samples DP-12, DP-13, and DP-14



10.0 CONCLUSIONS AND RECOMMENDATIONS

Succeed Environmental Consulting LLC (SEC) has completed a supplemental subsurface investigation at 556 Murlark Ave NW in Salem, Oregon. This work was conducted under the DEQ Voluntary Cleanup Program (VCP) in response to agency requests for additional data to support a No Further Action (NFA) determination for the Subject Property. Based on the results of our investigation and the totality of environmental data collected to date, SEC concludes the following:

- **No contaminants of concern were detected in any environmental media** (soil, groundwater, or soil vapor) at concentrations exceeding applicable DEQ Risk-Based Concentrations (RBCs), including those for occupational, construction, and excavation scenarios.
- **Diesel- and oil-range hydrocarbons were not detected** in groundwater samples analyzed using enhanced laboratory methods with detection limits (0.0748–0.0755 mg/L) that are below the DEQ's most conservative residential tap water RBC (0.100 mg/L). This directly resolves DEQ's prior concern regarding laboratory reporting limits exceeding the drinking water RBC.
- **Polychlorinated biphenyls (PCBs) were not detected** in any soil or groundwater samples. Groundwater MDLs (47.2–50.5 ppt) are consistent the occupational RBC and within a single order of magnitude of the residential RBC (6 ppt). The absence of detections in both soil and groundwater—despite extensive sampling—supports the conclusion that PCBs are not present at environmentally significant levels. Apex Laboratories, a nationally accredited laboratory, confirmed that the current MDLs represent the reasonably achievable sensitivity using EPA Method 8082A.
- **Vapor sampling detected no volatile contaminants** above applicable RBCs. Additional soil vapor data obtained in 2025 confirmed that the previously identified data gap of having only one data point has been resolved and there is no indication of vapor intrusion risk at the Subject Property.
- The original source of potential contamination (the oil-filled radiant heating system) has been removed from service, drained of oil, and permanently decommissioned. No residual impact has been identified from historical system operations.
- **The City of Salem prohibits the use of on-site groundwater for drinking water**, and therefore tap water exposure scenarios are not reasonably applicable to this property's land use. However, comparisons to residential RBCs were conservatively included in this analysis.

Based on this comprehensive dataset and the conservative nature of the sampling and analysis performed, it is our professional opinion that:

1. **No further environmental investigation or remediation is warranted** at the Subject Property.
2. **The laboratory MDLs for PCBs in groundwater are sufficiently protective** and do not preclude a No Further Action determination.
3. The Subject Property **poses no unacceptable risk to human health or the environment** under current or foreseeable future land use conditions.

We respectfully recommend that Oregon DEQ issue a determination of **No Further Action** for the Subject Property under the VCP.



12.0 DECLARATIONS

We declare that, to the best of our professional knowledge and belief, we meet the definition of Environmental Professional as defined in 40 CFR Part 312.10. We have the specific qualifications based on education, training, and experience to assess a property of the nature, history, and setting of the Subject Property. We developed and performed all the appropriate inquiries in accordance with the standards and practices set forth in 40 CFR Part 312.

13.0 LIMITATIONS

This report has been prepared for use by your firm. SEC makes no warranties or guarantees regarding the accuracy or completeness of information provided or compiled by others. The information presented in this report is based on the above-described research and a single recent site visit. Information provided by others was relied on in our description of historical conditions and review of regulatory databases and files.

No environmental site assessment can wholly eliminate uncertainty regarding the potential for recognized environmental conditions relating to a property. Performance of this practice is intended to reduce, but not eliminate, uncertainty regarding the potential for recognized environmental conditions relating to a property.

There is always a potential that areas with contamination that were not identified during this assessment exist at the Subject Property or in the study areas. Further evaluation of such potential would require additional research, subsurface exploration, sampling, and/or testing. Some substances may be present in the Subject Property vicinity in quantities or under conditions that may have led or may lead to contamination of the Subject Property but are not included in current local, state, or federal regulatory definitions of hazardous substances or do not otherwise present current potential liability.

SEC cannot be responsible if the standards of all appropriate inquiry or regulatory definitions of hazardous substance change or if you are required to meet more stringent standards in the future. This report is not intended for use by others, and the information contained herein is not applicable to other sites.

Reliance on this report by other parties is strictly at the risk of those parties, and SEC will grant no third-party reliance unless specifically requested in writing by our client for whom this report was prepared. Within the limitations of scope, schedule, and budget, our services have been executed in accordance with the generally accepted environmental science practices for environmental services in this area at the time this report was prepared. No warranty or other conditions, express or implied, should be understood.



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

Sincerely,

Succeed Environmental Consulting LLC



Andrew S. Blake, R.G.
Principal Geologist

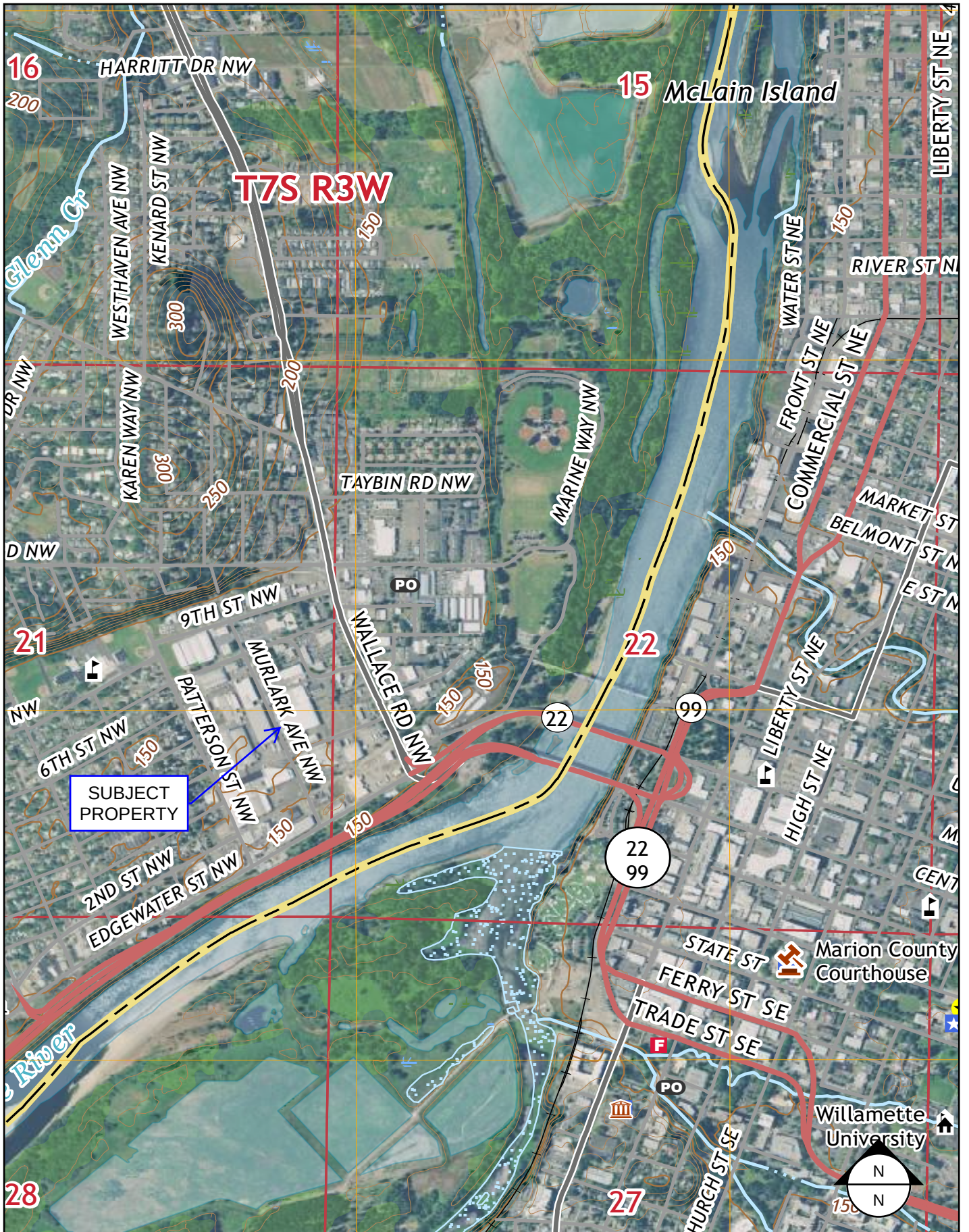


Expires 06/30/2025



FIGURES





SUCCEED
ENVIRONMENTAL
CONSULTING, LLC

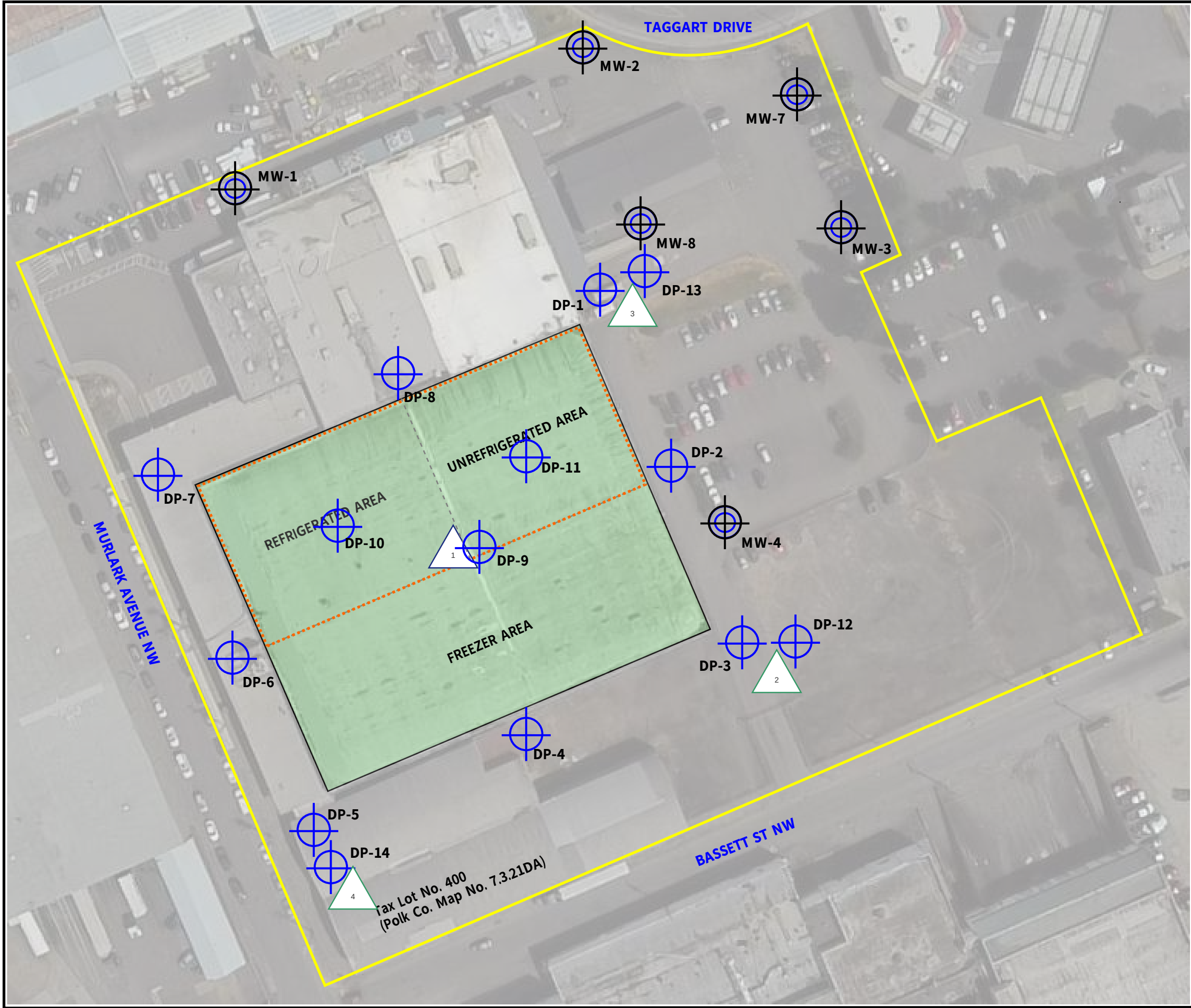
BNA-1-05

MAY 2025

VICINITY MAP

556 MURLARK AVE NW
SALEM, OR 97321

FIGURE 1



LEGEND:

APPROXIMATE SITE BOUNDARY (SHOWN IN YELLOW)

RADIANT HEATING SYSTEM AREA (ORANGE DASHED LINE INDICATES AREA OF SUSPECTED LEAKAGE)

INFERRED GROUNDWATER FLOW (PER MONITORING WELL DATA)

DECOMMISSIONED MONITORING WELL (ECSI NO. 3001 - FILE CLOSED)

DIRECT-PUSH BORING (APPROXIMATE LOCATION)

VAPOR SAMPLE (APPROXIMATE LOCATION)

(APPROXIMATE SCALE IN FEET)

150

SITE PLAN BASED ON OBSERVATIONS MADE BY SEC. MEASUREMENTS DERIVED FROM THIS FIGURE SHOULD BE CONSIDERED APPROXIMATE.

SUCCEED ENVIRONMENTAL CONSULTING, LLC	SITE PLAN		FIGURE 2
	BNA-1-05	556 MURLARK AVE NW SALEM, OR 97321	
	MAY 2025		



LEGEND:



APPROXIMATE SITE BOUNDARY
(SHOWN IN YELLOW)



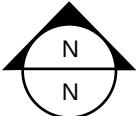
STORMWATER DETENTION BASIN
(ALSO COLLECTS ROOF DRAINAGE)



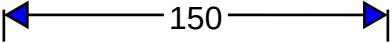
UNPAVED SURFACE
(ALSO COLLECTS ROOF DRAINAGE)



STORMWATER CATCH BASIN
(DRAINS TO MUNICIPALITY)



(APPROXIMATE SCALE IN FEET)



150

SITE PLAN BASED ON OBSERVATIONS MADE BY
SEC. MEASUREMENTS DERIVED FROM THIS
FIGURE SHOULD BE CONSIDERED APPROXIMATE.

STGORMWATER DRAINAGE FEATURES		FIGURE 3
BNA-1-05	556 MURLARK AVE NW SALEM, OR 97321	
		MAY 2025



SUCCEED
ENVIRONMENTAL
CONSULTING, LLC

TABLES



TABLE 1 Summary of Soil Sample Chemical Analytical Results 556 Murlark Ave NW Salem, Oregon 97321													
Client Sample ID	Date Collected	Method	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	NWTPH-Dx	NWTPH-Dx
		Analyte	AROCLOR 1016	AROCLOR 1221	AROCLOR 1232	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	AROCLOR 1262	AROCLOR 1268	DRO	ORO
DP-1(3.0-4.0)	7/12/2023	Value (mg/kg)	--	--	--	--	--	--	--	--	--	ND (24.6)	ND (49.2)
DP-1(15.0-17.0)	7/12/2023		ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (0.0124)	ND (24.8)	ND (49.6)
DP-2(10.0-12.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (24.0)	ND (48.1)
DP-2(16.0-18.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (25.1)	ND (50.1)
DP-3(15.0-17.0)	7/12/2023		ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (0.0118)	ND (22.7)	ND (45.4)
DP-4(6.0-8.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (25.8)	ND (51.6)
DP-5(10.0-12.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (26.5)	ND (52.9)
DP-5(18.0-20.0)	7/12/2023		ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (0.0122)	ND (25.0)	ND (50.0)
DP-6(12.0-14.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (26.9)	ND (53.8)
DP-7(10.0-11.0)	7/12/2023		ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (0.136)	ND (27.1)	ND (54.2)
DP-7(17.0-18.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (27.3)	ND (54.7)
DP-8(4.0-6.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (50)	ND (250)
DP-8(12.0-14.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (50)	ND (250)
DP-9(3.0-4.0)	7/12/2023		ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (50)	ND (250)
DP-9(14.0-16.0)	7/12/2023		--	--	--	--	--	--	--	--	--	ND (50)	ND (250)
DP-10(4.0-6.0)	7/12/2023		ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (50)	ND (250)
DP-11(2.0-3.0)	7/12/2023		ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (0.02)	ND (50)	ND (250)
DP-11(12.0-13.0)	7/12/2023	--	--	--	--	--	--	--	--	--	ND (50)	ND (250)	
Oregon DEQ Risk Based Concentrations (RBCs)													
Soil Ingestion Dermal Contact and Inhalation	Residential	Value (mg/kg)	0.23									1100	NE ¹
	Occupational		0.59									14000	NE ¹
	Const. Worker		4.9									4600	NE ¹
	Exc. Worker		140									> Max	NE ¹
Volatilization to Outdoor Air	Residential		>Csat									> Max	NE ¹
	Occupational		>Csat									> Max	NE ¹
Leaching to Groundwater	Residential		0.24									9500	NE ¹
	Occupational		1.1									> Max	NE ¹
Notes: 1. DEQ noted that NWTPH-Dx values for DRO and ORO should be added together and compared against diesel RBCS. This does not materially affect the conclusions of the report. DEQ RBCs revised August 2023. ND: Analyte was not detected at the laboratory reporting limit (shown). NV: not considered volatile >Max: The constituent RBC for this pathway is calculated as greater than 1,000,000 mg/kg or 1,000,000 mg/L. Therefore, this substance is deemed not to pose a risk in this scenario. >Csat: The RBC exceeds the limit of three-phase equilibrium partitioning, which would indicated the presence of free product. No PCBs were detected during this assessment. NE: not established --: not analyzed ORO: oil-range organics 'DRO: diesel-range organics													

TABLE 2 Summary of Groundwater Sample Chemical Analytical Results 556 Murlark Ave NW Salem, Oregon 97321													
Client Sample ID		Date Collected	Method	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	8082 A	NWTPH-Dx	NWTPH-Dx	
			Analyte	AROCLOR 1016	AROCLOR 1221	AROCLOR 1232	AROCLOR 1242	AROCLOR 1248	AROCLOR 1254	AROCLOR 1260	DRO	ORO	
MW-1		7/11/2023	Value (mg/L)	--	--	--	--	--	--	--	ND (0.187)	ND (0.374)	
MW-2		7/11/2023		--	--	--	--	--	--	--	ND (0.194)	ND (0.388)	
MW-3		7/11/2023		--	--	--	--	--	--	--	ND (0.192)	ND (0.385)	
MW-4		7/11/2023		--	--	--	--	--	--	--	ND (0.190)	ND (0.381)	
MW-7		7/11/2023		--	--	--	--	--	--	--	ND (0.200)	ND (0.400)	
MW-8		7/11/2023		--	--	--	--	--	--	--	ND (0.204)	ND (0.408)	
DP-4		7/12/2023		--	--	--	--	--	--	--	ND (0.213)	ND (0.4226)	
DP-6		7/12/2023		--	--	--	--	--	--	--	ND (0.263)	ND (0.526)	
DP-12		4/29/2025		ND (0.0000472)	ND (0.0000472)	ND (0.0000472)	ND (0.0000472)	ND (0.0000472)	ND (0.0000472)	ND (0.0000472)	ND (0.0755)	ND (0.151)	
DP-13		4/29/2025		ND (0.0000505)	ND (0.0000505)	ND (0.0000505)	ND (0.0000505)	ND (0.0000505)	ND (0.0000505)	ND (0.0000505)	ND (0.0748)	ND (0.150)	
DP-14		4/29/2025		ND (0.0000476)	ND (0.0000476)	ND (0.0000476)	ND (0.0000476)	ND (0.0000476)	ND (0.0000476)	ND (0.0000476)	ND (0.0755)	ND (0.151)	
Oregon DEQ Risk Based Concentrations (RBCs)													
Ingestion & Inhalation of Tap Water		Residential	Value (mg/L)	0.000006	0.000006	0.000006	0.000006	0.000006	0.000006	0.000006	0.1	NE ¹	
		Occupational		0.000028	0.000028	0.000028	0.000028	0.000028	0.000028	0.000028	0.43	NE ¹	
Vapor Intrusion Into Buildings	Chronic	Residential		0.017	0.0053	0.00016	0.0013	0.00027	0.0017	0.00036	0.4	NE ¹	
		Commercial		0.075	0.0023	0.00071	0.0058	0.0012	0.0072	0.0016	1.7	NE ¹	
	Acute	Residential		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE ¹
		Commercial		NE	NE	NE	NE	NE	NE	NE	NE	NE	NE ¹
Groundwater in Excavation		Const. & Exc. Worker		0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	>S	NE ¹
Volatilization to Outdoor Air		Residential		NE	NE	NE	NE	NE	NE	NE	NE	>S	NE ¹
		Occupational		NE	NE	NE	NE	NE	NE	NE	NE	>S	NE ¹
Notes: 1. DEQ noted that NWTPH-Dx values for DRO and ORO should be added together and compared against diesel RBCS. This does not materially affect the conclusions of the report. DEQ RBCs revised August 2023. Vapor Intrusion RBCs dated March 2025. NV: not volatile '>S: This groundwater RBC exceeds the solubility limit. NE: not established --: not analyzed ORO: oil-range organics DRO: diesel-range organics													

TABLE 3
Summary of Vapor Sample Chemical Analytical Results
556 Murlark Ave NW
Salem, Oregon 97321

						Oregon DEQ Risk Based Concentrations (RBCs) Revised 2024			
Client Sample ID		SV-01	SV-02	SV-03	SV-04	Chronic Screening Value		Acute Screening Value	
Date Collected		8/19/2023	4/29/2025	4/29/2025	4/29/2025	Residential	Commercial	Residential	Commercial
Method	Analyte	Result (µg/m ³)	Result (µg/m ³)	Result (µg/m ³)	Result (µg/m ³)	Screening Level (µg/m ³)			
TO-17	DRO	ND (2,000)	ND (3,200)	ND (3,200)	ND (3,200)	3,300	14,000	NE	NE
TO-17	2-Propanol	ND (250)	ND (500)	ND (500)	ND (500)	NE	NE	NE	NE

Notes:

ND: Analyte was not detected at the laboratory reporting limit (shown).

NE: not established

--: not analyzed

DRO: diesel-range organics

APPENDIX A



APPENDIX A

SUBSURFACE EXPLORATIONS

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

SOIL SAMPLING

Continuous soil samples were collected from the explorations. Soil samples obtained from the explorations were collected from 60-inch-long samplers lined with acrylic sleeves. Soil samples were placed 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.

SOIL SAMPLE FIELD SCREENING METHODS

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 using a MiniRAE PID.

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 a 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.

Headspace vapor screening is performed by placing a soil sample in a plastic bag. Air is captured in the bag, and the bag is shaken to expose the soil to the air trapped in the bag. The probe of a MiniRAE PID is inserted into the bag, and the MiniRAE PID measures VOC vapor concentrations in units of ppm. The MiniRAE PID is calibrated to isobutylene. The MiniRAE PID is designed to quantify VOC vapor concentrations in the range between 1 and 2,000 ppm with an accuracy of 10 percent of the reading and between 2,000 and 10,000 ppm with an accuracy of 20 percent of the reading.

Field screening results are site and exploration specific. The results may vary with temperature, soil moisture content, soil type, and type of contaminant.



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

Groundwater Monitoring and Sampling

Groundwater monitoring and sampling activities were conducted on July 11 and July 12, 2023 using equipment that is owned and operated by SEC and Cascade Drilling. SEC relied on dedicated tubing that is located within monitoring wells MW-1, MW-2, MW-3, MW-4, MW-7 and MW-8, and placed new disposable 3/8-inch polyethylene tubing into temporary wells installed within DP-4 and DP-6.

Tubing was placed approximately three to five feet above the bottom of each well and water was slowly purged using a peristaltic pump. Upon purging each well, SEC collected groundwater samples directly from the tubing into laboratory-prepared sample containers.

The groundwater samples collected by SEC were immediately placed in coolers with ice and submitted to the chemical analytical laboratory following general chain-of-custody procedures.

IDW

IDW (soil cuttings, decontamination water, and purge water) generated by SEC is currently stored in a 55-gallon drum at the Subject Property, pending disposal. SEC intends to subcontract a licensed waste disposal service to dispose of all IDW generated at the Subject Property upon completion of investigation activities at the site, or at the client's request.



Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
				4" Asphalt Slab			
		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	No Odors or Staining Observed
				Gray-Brown SILT (ML) With Clay, Trace Sand, Moist			
		5	5		0	NS	
10							
		5	3		0	NS	
				Brown-Gray Mottled Fine SAND (SP), Wet			
		5	2		0	NS	Soil Sample DP-1(15.0-17.0) DP-1(3.0-4.0) Collected
20				Boring Terminated at 20' BGS			
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-1	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		5	4	4" Asphalt Slab	0	NS	No Odors or Staining Observed
		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
10		5	3	Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		5	3	Brown-Gray Mottled Fine SAND (SP), Wet Gravel @ 18.0' BGS	0	NS	
20				Boring Terminated at 20' BGS			Soil Sample DP-2(16.0-18.0) DP-2(10.0-12.0) Collected
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-2	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		5	4	4" Asphalt Slab	0	NS	No Odors or Staining Observed
		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
10		5	3	Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		5	3	Brown-Gray Mottled Fine SAND (SP), Wet	0	NS	
20				Boring Terminated at 20' BGS			Soil Sample DP-3(15.0-17.0) Collected
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-3	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	25'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
				Gravel FILL			
		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
				Gray-Brown SILT (ML) With Clay, Trace Sand, Moist			
		5	4		0	NS	
10					0	NS	No Odors or Staining Observed
		5	3		0	NS	
				Brown-Gray Mottled Fine SAND (SP), Wet	0	NS	
20		5	3		0	NS	Soil Sample DP-4(6.0-8.0) Collected
				Brown-Orange Sandy GRAVEL (GP), Tr. Silt, Wet	0	NS	
		5	5				Water Sample DP-4 Collected
30				Boring Terminated at 25' BGS			

 SUCCEED ENVIRONMENTAL CONSULTING, LLC 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-4	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		5	1	4" Asphalt Slab	0	NS	No Odors or Staining Observed
		5	0	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
10		5	3	Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		5	5	Brown-Gray Mottled Fine SAND (SP), Wet	0	NS	
20				Boring Terminated at 20' BGS	0	NS	
					0	NS	
30					0	NS	

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-5	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	30'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
				5" Concrete Slab			
		5	3	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	No Odors or Staining Observed
				Gray-Brown SILT (ML) With Clay, Trace Sand, Moist			
		5	3		0	NS	
10					0	NS	
		5	4		0	NS	
		5	3	Brown-Gray Mottled Fine SAND (SP), Moist	0	NS	Soil Sample DP-6(6.0-8.0) Collected
20							
		5	4	Brown-Orange Sandy GRAVEL (GP), Tr. Silt, Wet	0	NS	
					0	NS	Water Sample DP-6 Collected
		5					
30				Boring Terminated at 30' BGS	0	NS	

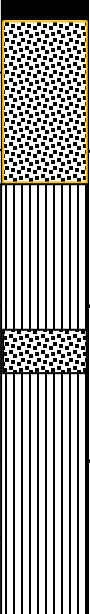
 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	SUCCEED ENVIRONMENTAL CONSULTING, LLC	BNA-1-03	Boring DP-6	
		September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 7/12/23	Drilling Contractor:	Drill Rig Type:	
Driller: CDI			Completed: 7/12/23	Cascade Drilling	Direct Push	
Locate Number:			Backfilled: 7/12/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments	
		5	3	5" Concrete Slab	0	NS	No Odors or Staining Observed	
		5	0	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS		
10		5	4		Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0		NS
		5	5			0		NS
20						0		NS
				Boring Terminated at 20' BGS	0	NS		
					0	NS		
30					0	NS		

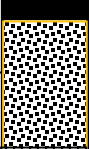
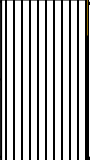
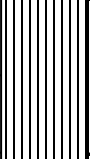
 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	SUCCEED ENVIRONMENTAL CONSULTING, LLC	BNA-1-03	Boring DP-7	
		September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 8/19/23	Drilling Contractor:	Drill Rig Type:	
Driller: SPL			Completed: 8/19/23	Standard Probe	Direct Push	
Locate Number:			Backfilled: 8/19/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	16'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		4	3	5" Concrete Slab Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	No Odors or Staining Observed Soil Sample DP-8(4.0-6.0) DP-8(12.0-14.0) Collected
		4	3	Becomes Dark Brown/Gray at ~4.0' BGS Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
10		4	2	Brown Sandy GRAVEL (GP), Moist Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		4	2		0	NS	
20				Boring Terminated at 16' BGS			
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	SUCCEED ENVIRONMENTAL CONSULTING, LLC	BNA-1-03	Boring DP-8	
		September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

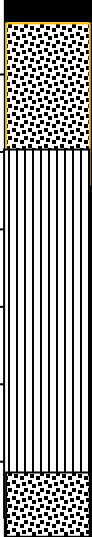
Logged By: A.B.		Date	Started: 8/19/23	Drilling Contractor:	Drill Rig Type:	
Driller: SPL			Completed: 8/19/23	Standard Probe	Direct Push	
Locate Number:			Backfilled: 8/19/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	16'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		4	3	5" Concrete Slab Above Foam Insulation	0	NS	No Odors or Staining Observed
		4	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL Becomes Dark Brown/Gray at ~3.5' BGS	0	NS	
10		4	4	Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		4	4	Brown Sandy GRAVEL (GP), Moist Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	Soil Sample DP-9(3.0-4.0) DP-9(14.0-16.0) Collected
20				Boring Terminated at 16' BGS (REFUSAL)			
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-03	Boring DP-9	
	September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By:		A.B.				
Driller:		SPL				
Locate Number:		23189802				
Date		Started: 8/19/23 Completed: 8/19/23 Backfilled: 8/19/23				
		Drilling Contractor: Standard Probe				
		Bit Type: Macro-Core				
		Diameter: 3-Inch-Diamater				
Groundwater Depth: Not Encountered		Elevation: Not Measured				
		Total Depth of Boring: 8'				
Depth (feet)	Graphic Log	Drilled Depth Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
	[Log showing concrete slab above foam insulation]	4 2	5" Concrete Slab Above Foam Insulation Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	No Odors or Staining Observed
	[Log showing brown silt with clay]	4 4	Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	Soil Sample DP-10(4.0-6.0) Collected
10			Boring Terminated at 8' BGS			
20						
30						
SUCCEED ENVIRONMENTAL CONSULTING, LLC 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404 BNA-1-03 September 2023 Boring DP-10 556 MURLARK AVE NW SALEM, OREGON Appendix A						

Logged By: A.B.		Date	Started: 8/19/23	Drilling Contractor:	Drill Rig Type:	
Driller: SPL			Completed: 8/19/23	Standard Probe	Direct Push	
Locate Number:			Backfilled: 8/19/23	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		Not Encountered		Not Measured	14'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments	
10		4	3	5" Concrete Slab Above Foam Insulation Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	No Odors or Staining Observed	
				Becomes Dark Brown/Gray at ~3.5' BGS				
		4	4	Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS		
				4	4		0	NS
		4	2	Brown Sandy GRAVEL (GP), Moist	0	NS		
20				Boring Terminated at 14' BGS (REFUSAL)				
30								

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	SUCCEED ENVIRONMENTAL CONSULTING, LLC	BNA-1-03	Boring DP-11	
		September 2023	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 4/29/25	Drilling Contractor:	Drill Rig Type:		
Driller: Holt			Completed: 4/29/25	Holt Drilling	Direct Push		
Locate Number:			Backfilled: 4/29/25	Bit Type:	Diameter:		
				Macro-Core	3-Inch-Diameter		
23189802		Groundwater Depth: 17.5'		Elevation: Not Measured	Total Depth of Boring: 20'		
Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
10		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	No Odors or Staining Observed
		5	4				
		5	4				
		5	3				
		5	3				
20		5	3	Brown-Gray Mottled Fine SAND (SP), Wet Gravel @ 18.0' BGS	0	NS	Groundwater Sample DP-12 Collected
				Boring Terminated at 20' BGS			
30							
SUCCEED ENVIRONMENTAL CONSULTING, LLC 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404				BNA-1-05	Boring DP-12		
				4/29/2025	556 MURLARK AVE NW SALEM, OREGON	Appendix A	

Logged By: A.B.		Date	Started: 4/29/25	Drilling Contractor:	Drill Rig Type:	
Driller: Holt			Completed: 4/29/25	Holt Drilling	Direct Push	
Locate Number:			Backfilled: 4/29/25	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		14.8'		Not Measured	20'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		5	4	4" Asphalt Slab	0	NS	No Odors or Staining Observed
		5	4	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
10		5	4	Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
		5	3	Brown-Gray Mottled Fine SAND (SP), Wet Gravel @ 18.0' BGS	0	NS	
20		5	3	Brown-Gray Mottled Fine SAND (SP), Wet Gravel @ 18.0' BGS	0	NS	
				Boring Terminated at 20' BGS			Groundwater Sample DP-13 Collected
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	SUCCEED ENVIRONMENTAL CONSULTING, LLC	BNA-1-05	Boring DP-13	
		4/29/2025	556 MURLARK AVE NW SALEM, OREGON	Appendix A

Logged By: A.B.		Date	Started: 4/29/25	Drilling Contractor:	Drill Rig Type:	
Driller: Holt			Completed: 4/29/25	Holt Drilling	Direct Push	
Locate Number:			Backfilled: 4/29/25	Bit Type:	Diameter:	
				Macro-Core	3-Inch-Diameter	
23189802		Groundwater Depth:		Elevation:	Total Depth of Boring:	
		19.55'		Not Measured	25'	

Depth (feet)	Graphic Log	Drilled Depth	Depth Recovered	Description	PID Result (ppm)	Sheen Test Result	Additional Comments
		5	1	4" Asphalt Slab	0	NS	No Odors or Staining Observed
		5	5	Brown Silty/Sandy GRAVEL (GM), Moist FILL	0	NS	
		5	5	Gray-Brown SILT (ML) With Clay, Trace Sand, Moist	0	NS	
10		5	5	Brown-Gray Mottled Fine SAND (SP), Wet Gravel @ 18.0' BGS	0	NS	
		5	3	Boring Terminated at 20' BGS	0	NS	
20		5	5	Boring Terminated at 20' BGS	0	NS	
				Boring Terminated at 20' BGS			Groundwater Sample DP-14 Collected
30							

 1631 NE Broadway #211, Portland, OR 97232 www.succeed-env.com 971.371.0404	BNA-1-05	Boring DP-14	
	4/29/2025	556 MURLARK AVE NW SALEM, OREGON	Appendix A

APPENDIX B





ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

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

Friday, July 21, 2023

Andrew S. Blake, R.G., L.G.

Succeed Environmental Consulting

6028 NE 49th Ave.

Portland, OR 97218

RE: A3G1002 - BNA-1-02 - BNA-1-02

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 A3G1002, which was received by the laboratory on 7/12/2023 at 5:45:00PM.

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

(See Cooler Receipt Form for details)

Default Cooler 3.4 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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

Apex Laboratories, LLC

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

Tuesday, May 20, 2025

Andrew S. Blake, R.G., L.G.

Succeed Environmental Consulting

6028 NE 49th Ave.

Portland, OR 97218

RE: A5D1899 - BNA-1-05 - BNA-1-05

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 A5D1899, which was received by the laboratory on 4/29/2025 at 4:49:00PM.

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	
<u>Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.</u>	
(See Cooler Receipt Form for details)	
Default Cooler	<u>1.8 degC</u>

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

Philip Nerenberg

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
DP-12	A5D1899-01	Water	04/29/25 11:00	04/29/25 16:49
DP-13	A5D1899-02	Water	04/29/25 13:05	04/29/25 16:49
DP-14	A5D1899-03	Water	04/29/25 15:15	04/29/25 16:49

Apex Laboratories

Philip Nerenberg, Lab Director

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.

**ANALYTICAL REPORT****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 97218Project: **BNA-1-05**Project Number: **BNA-1-05**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A5D1899 - 05 20 25 1011****ANALYTICAL SAMPLE RESULTS****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12 (A5D1899-01)		Matrix: Water			Batch: 25E0164			
Diesel	ND	---	0.0755	mg/L	1	05/07/25 09:19	NWTPH-Dx LL	
Oil	ND	---	0.151	mg/L	1	05/07/25 09:19	NWTPH-Dx LL	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 99 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>05/07/25 09:19</i>	<i>NWTPH-Dx LL</i>	
DP-13 (A5D1899-02)		Matrix: Water			Batch: 25E0164			
Diesel	ND	---	0.0748	mg/L	1	05/07/25 09:41	NWTPH-Dx LL	
Oil	ND	---	0.150	mg/L	1	05/07/25 09:41	NWTPH-Dx LL	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 92 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>05/07/25 09:41</i>	<i>NWTPH-Dx LL</i>	
DP-14 (A5D1899-03)		Matrix: Water			Batch: 25E0164			
Diesel	ND	---	0.0755	mg/L	1	05/07/25 10:02	NWTPH-Dx LL	
Oil	ND	---	0.151	mg/L	1	05/07/25 10:02	NWTPH-Dx LL	
<i>Surrogate: o-Terphenyl (Surr)</i>		<i>Recovery: 98 %</i>		<i>Limits: 50-150 %</i>	<i>1</i>	<i>05/07/25 10:02</i>	<i>NWTPH-Dx LL</i>	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**Project Number: **BNA-1-05**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A5D1899 - 05 20 25 1011**

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-12 (A5D1899-01)		Matrix: Water			Batch: 25E0322		C-07	
Aroclor 1016	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1221	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1232	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1242	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1248	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1254	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Aroclor 1260	ND	0.0472	0.0943	ug/L	1	05/09/25 17:33	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 69 %		Limits: 40-135 %	1	05/09/25 17:33	EPA 8082A	
DP-13 (A5D1899-02)		Matrix: Water			Batch: 25E0322		C-07, DCNT	
Aroclor 1016	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1221	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1232	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1242	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1248	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1254	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Aroclor 1260	ND	0.0505	0.101	ug/L	1	05/09/25 17:51	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 86 %		Limits: 40-135 %	1	05/09/25 17:51	EPA 8082A	
DP-14 (A5D1899-03)		Matrix: Water			Batch: 25E0322		C-07	
Aroclor 1016	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1221	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1232	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1242	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1248	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1254	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Aroclor 1260	ND	0.0476	0.0952	ug/L	1	05/09/25 18:09	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 74 %		Limits: 40-135 %	1	05/09/25 18:09	EPA 8082A	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: BNA-1-05Project Number: BNA-1-05Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A5D1899 - 05 20 25 1011

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes	
Batch 25E0164 - EPA 3510C (Fuels/Acid Ext.)						Water							
Blank (25E0164-BLK1)			Prepared: 05/06/25 10:52		Analyzed: 05/07/25 08:14								
<u>NWTPH-Dx LL</u>													
Diesel	ND	---	0.0800	mg/L	1	---	---	---	---	---	---		
Oil	ND	---	0.160	mg/L	1	---	---	---	---	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 97 %		Limits: 50-150 %		Dilution: 1x							
LCS (25E0164-BS1)			Prepared: 05/06/25 10:52		Analyzed: 05/07/25 08:36								
<u>NWTPH-Dx LL</u>													
Diesel	0.334	---	0.0800	mg/L	1	0.500	---	67	36-132%	---	---		
Surr: o-Terphenyl (Surr)		Recovery: 102 %		Limits: 50-150 %		Dilution: 1x							
LCS Dup (25E0164-BSD1)			Prepared: 05/06/25 10:52		Analyzed: 05/07/25 08:57								Q-19
<u>NWTPH-Dx LL</u>													
Diesel	0.291	---	0.0800	mg/L	1	0.500	---	58	36-132%	14	30%		
Surr: o-Terphenyl (Surr)		Recovery: 103 %		Limits: 50-150 %		Dilution: 1x							

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street
Tigard, OR 97223
503-718-2323
ORELAP ID: OR100062Succeed Environmental Consulting6028 NE 49th Ave.
Portland, OR 97218Project: BNA-1-05

Project Number: BNA-1-05

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

Report ID:

A5D1899 - 05 20 25 1011

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25E0322 - EPA 3510C (Neutral pH)						Water						
Blank (25E0322-BLK1)				Prepared: 05/09/25 11:02		Analyzed: 05/09/25 16:40		C-07				
EPA 8082A												
Aroclor 1016	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1221	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1232	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1242	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1248	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1254	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Aroclor 1260	ND	0.0500	0.100	ug/L	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 68 %		Limits: 40-135 %		Dilution: 1x						
LCS (25E0322-BS1)				Prepared: 05/09/25 11:02		Analyzed: 05/09/25 16:58		C-07				
EPA 8082A												
Aroclor 1016	1.95	0.0500	0.100	ug/L	1	2.50	---	78	46-129%	---	---	
Aroclor 1260	1.82	0.0500	0.100	ug/L	1	2.50	---	73	45-134%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 68 %		Limits: 40-135 %		Dilution: 1x						
LCS Dup (25E0322-BSD1)				Prepared: 05/09/25 11:02		Analyzed: 05/09/25 17:15		C-07, Q-19				
EPA 8082A												
Aroclor 1016	1.85	0.0500	0.100	ug/L	1	2.50	---	74	46-129%	5	30%	
Aroclor 1260	1.81	0.0500	0.100	ug/L	1	2.50	---	72	45-134%	0.6	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 68 %		Limits: 40-135 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

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.

**ANALYTICAL REPORT****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: **BNA-1-05**Project Number: **BNA-1-05**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A5D1899 - 05 20 25 1011****SAMPLE PREPARATION INFORMATION****Diesel and/or Oil Hydrocarbons by NWTPH-Dx**Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 25E0164</u>							
A5D1899-01	Water	NWTPH-Dx LL	04/29/25 11:00	05/06/25 10:52	1060mL/2mL	1000mL/2mL	0.94
A5D1899-02	Water	NWTPH-Dx LL	04/29/25 13:05	05/06/25 10:52	1070mL/2mL	1000mL/2mL	0.94
A5D1899-03	Water	NWTPH-Dx LL	04/29/25 15:15	05/06/25 10:52	1060mL/2mL	1000mL/2mL	0.94

Polychlorinated Biphenyls by EPA 8082APrep: EPA 3510C (Neutral pH)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 25E0322</u>							
A5D1899-01	Water	EPA 8082A	04/29/25 11:00	05/09/25 11:02	1060mL/5mL	1000mL/5mL	0.94
A5D1899-02	Water	EPA 8082A	04/29/25 13:05	05/09/25 11:02	990mL/5mL	1000mL/5mL	1.01
A5D1899-03	Water	EPA 8082A	04/29/25 15:15	05/09/25 11:02	1050mL/5mL	1000mL/5mL	0.95

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

QUALIFIER DEFINITIONS

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

Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- DCNT** Sample decanted due to the presence of sediment in water samples, or water in sediment or soil samples. (Note: Decanted aqueous sample bottles are not solvent rinsed.)
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

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)

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

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



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

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

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

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

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

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

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

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 correction 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 Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) -

EPA ID: OR01039

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

Apex Laboratories

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

Apex Laboratories

Philip Nerenberg, Lab Director

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.

Succeed Environmental Consulting

6028 NE 49th Ave.

Portland, OR 97218

Project: **BNA-1-05**

Project Number: **BNA-1-05**

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

Report ID:

A5D1899 - 05 20 25 1011

APEX LABS		CHAIN OF CUSTODY		Lab # A5D1899 coc 1 of 1																			
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Project Name: —		Project # BNA-1-05																			
Company: SEC		Project Mgr: A. Blake		Phone: 971-311-0404																			
Address: 1631 NE Broadway #211, Portland, OR 97232		Email: abblake@succeedenv.com		Fax: —																			
Sampled by: A. Blake		ANALYSIS REQUEST																					
State Sampled: (OR) WA																							
Other: —																							
County: Polk																							
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-DX	NWTPH-CX	8260D RBDM VOCs	8260D Halo VOCs	8260D VOCs Full List	8270E PAHs	8270E Semi-Vols Full List	8082A PCBs	8081B Pest	RCRA Metals (8)	Priority Metals (13)	Al, Sb, As, Ba, Be, Cd, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	TOTAL DISS. TCLP	TCLP Metals (8)	ARCHIVE - FROZEN	HOLD		
1 DP-12	4/29/25	1100	WZ	2		X							X										
2 DP-13	4	1305	WZ			X							X										
3 DP-14	4	1515	WZ			X							X										
4																							
5																							
6																							
7																							
8																							
9																							
10																							

Normal Turn Around Time (TAT) = 10 Business Days -->

***** RUSH - Request --> Indicate Date Needed: -->**

*****Rush TAT requests may incur additional cost**

For TAT calculations, samples received after 3pm will be considered received the next business day. Data will be reported by 6pm. Samples with <72 hrs of hold time may be surcharged.

SAMPLES ARE HELD FOR 30 DAYS

SPECIAL INSTRUCTIONS:

Low Level Ds

RELINQUISHED BY:		RECEIVED BY:	
Signature:	Date:	Signature:	Date:
<i>[Signature]</i>	4/29/25	<i>[Signature]</i>	4/29/25
Printed Name: A. Blake	Time: 1645	Printed Name: K. St. Norbert	Time: 1104
Company: SEC		Company: Apex	

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

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: **BNA-1-05**Project Number: **BNA-1-05**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A5D1899 - 05 20 25 1011****APEX LABS COOLER RECEIPT FORM**Client: Succeed Environmental Consulting (SEC) Element WO#: A5D1899Project/Project #: Project # BNA-1-05**Delivery Info:**Date/time received: 4/29/25 @ 1649 By: KNDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐From USDA Regulated Origin? Yes ☐ No ☒**Cooler Inspection** Date/time inspected: 4/29/25 @ 1649 By: KNChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐Contains USDA Reg. Soils? Yes ☐ No ☒ Unsure (email RegSoils) ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>1.8</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>in</u>						

Cooler out of temp? (Y/N) Possible reason why: Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐**Sample Inspection:** Date/time inspected: 4/29/25 @ 1740 By: ZAAll samples intact? Yes ☒ No ☐ Comments: Bottle labels/COCs agree? Yes ☒ No ☐ Comments: COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒Comments: Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☒ No ☐ NA ☐ pH ID: B2812Comments: Labeled by: ZAWitness: JSCooler Inspected by: ZA

Form Y-003 R-02

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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.

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	A3G1002-01	Water	07/11/23 13:30	07/12/23 17:45
MW-8	A3G1002-02	Water	07/11/23 14:30	07/12/23 17:45
MW-2	A3G1002-03	Water	07/11/23 16:00	07/12/23 17:45
MW-3	A3G1002-04	Water	07/12/23 08:26	07/12/23 17:45
MW-7	A3G1002-05	Water	07/12/23 09:00	07/12/23 17:45
MW-1	A3G1002-06	Water	07/12/23 09:30	07/12/23 17:45
DP-1(3.0-4.0)	A3G1002-07	Soil	07/12/23 09:30	07/12/23 17:45
DP-1(15.0-17.0)	A3G1002-08	Soil	07/12/23 09:35	07/12/23 17:45
DP-2(10.0-12.0)	A3G1002-09	Soil	07/12/23 10:05	07/12/23 17:45
DP-2(16.0-18.0)	A3G1002-10	Soil	07/12/23 10:10	07/12/23 17:45
DP-3(15.0-17.0)	A3G1002-11	Soil	07/12/23 11:30	07/12/23 17:45
DP-4(6.0-8.0)	A3G1002-12	Soil	07/12/23 12:10	07/12/23 17:45
DP-4	A3G1002-13	Water	07/12/23 12:30	07/12/23 17:45
DP-5(10.0-12.0)	A3G1002-14	Soil	07/12/23 14:00	07/12/23 17:45
DP-5(18.0-20.0)	A3G1002-15	Soil	07/12/23 14:05	07/12/23 17:45
DP-6(12.0-14.0)	A3G1002-16	Soil	07/12/23 15:00	07/12/23 17:45
DP-6	A3G1002-17	Water	07/12/23 15:10	07/12/23 17:45
DP-7(10.0-11.0)	A3G1002-18	Soil	07/12/23 16:10	07/12/23 17:45
DP-7(17.0-18.0)	A3G1002-19	Soil	07/12/23 16:20	07/12/23 17:45

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

Page 2 of 23



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL CASE NARRATIVE

A3G1002

Apex Laboratories

Amended Report Revision 1

This report supersedes all previous reports.

The Final Report has been amended to include 8082 PCBs results for samples DP-1(15.0-17.0), DP-3(15.0-17.0), DP-5(18.0-20.0), and DP-7(10.0-11.0) (Apex Lab WO A3G1002-08, -11, -15, and -18).

Cameron O'Brien

Project Manager

7/18/23

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-4 (A3G1002-01)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.190	mg/L	1	07/15/23 04:15	NWTPH-Dx	
Oil	ND	---	0.381	mg/L	1	07/15/23 04:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	07/15/23 04:15	NWTPH-Dx	
MW-8 (A3G1002-02)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.204	mg/L	1	07/15/23 04:38	NWTPH-Dx	
Oil	ND	---	0.408	mg/L	1	07/15/23 04:38	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	07/15/23 04:38	NWTPH-Dx	
MW-2 (A3G1002-03)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.194	mg/L	1	07/15/23 05:02	NWTPH-Dx	
Oil	ND	---	0.388	mg/L	1	07/15/23 05:02	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %	1	07/15/23 05:02	NWTPH-Dx	
MW-3 (A3G1002-04)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.192	mg/L	1	07/15/23 05:25	NWTPH-Dx	
Oil	ND	---	0.385	mg/L	1	07/15/23 05:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %	1	07/15/23 05:25	NWTPH-Dx	
MW-7 (A3G1002-05)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.200	mg/L	1	07/15/23 05:49	NWTPH-Dx	
Oil	ND	---	0.400	mg/L	1	07/15/23 05:49	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	07/15/23 05:49	NWTPH-Dx	
MW-1 (A3G1002-06)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.187	mg/L	1	07/15/23 06:12	NWTPH-Dx	
Oil	ND	---	0.374	mg/L	1	07/15/23 06:12	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %	1	07/15/23 06:12	NWTPH-Dx	
DP-1(3.0-4.0) (A3G1002-07)		Matrix: Soil			Batch: 23G0412			
Diesel	ND	---	24.6	mg/kg dry	1	07/14/23 22:31	NWTPH-Dx	
Oil	ND	---	49.2	mg/kg dry	1	07/14/23 22:31	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	07/14/23 22:31	NWTPH-Dx	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	24.8	mg/kg dry	1	07/14/23 23:13	NWTPH-Dx	
Oil	ND	---	49.6	mg/kg dry	1	07/14/23 23:13	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	07/14/23 23:13	NWTPH-Dx	
DP-2(10.0-12.0) (A3G1002-09)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	24.0	mg/kg dry	1	07/14/23 23:33	NWTPH-Dx	
Oil	ND	---	48.1	mg/kg dry	1	07/14/23 23:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	07/14/23 23:33	NWTPH-Dx	
DP-2(16.0-18.0) (A3G1002-10)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.1	mg/kg dry	1	07/14/23 23:54	NWTPH-Dx	
Oil	ND	---	50.1	mg/kg dry	1	07/14/23 23:54	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %	1	07/14/23 23:54	NWTPH-Dx	
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	22.7	mg/kg dry	1	07/15/23 00:15	NWTPH-Dx	
Oil	ND	---	45.4	mg/kg dry	1	07/15/23 00:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %	1	07/15/23 00:15	NWTPH-Dx	
DP-4(6.0-8.0) (A3G1002-12)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.8	mg/kg dry	1	07/15/23 00:35	NWTPH-Dx	
Oil	ND	---	51.6	mg/kg dry	1	07/15/23 00:35	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	07/15/23 00:35	NWTPH-Dx	
DP-4 (A3G1002-13)				Matrix: Water		Batch: 23G0386		
Diesel	ND	---	0.213	mg/L	1	07/15/23 06:36	NWTPH-Dx	
Oil	ND	---	0.426	mg/L	1	07/15/23 06:36	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	07/15/23 06:36	NWTPH-Dx	
DP-5(10.0-12.0) (A3G1002-14)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	26.5	mg/kg dry	1	07/15/23 00:56	NWTPH-Dx	
Oil	ND	---	52.9	mg/kg dry	1	07/15/23 00:56	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	07/15/23 00:56	NWTPH-Dx	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.0	mg/kg dry	1	07/15/23 01:17	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	07/15/23 01:17	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 74 %		Limits: 50-150 %	1	07/15/23 01:17	NWTPH-Dx	
DP-6(12.0-14.0) (A3G1002-16)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	26.9	mg/kg dry	1	07/15/23 01:37	NWTPH-Dx	
Oil	ND	---	53.8	mg/kg dry	1	07/15/23 01:37	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	07/15/23 01:37	NWTPH-Dx	
DP-6 (A3G1002-17)				Matrix: Water		Batch: 23G0386		
Diesel	ND	---	0.263	mg/L	1	07/15/23 06:59	NWTPH-Dx	
Oil	ND	---	0.526	mg/L	1	07/15/23 06:59	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	07/15/23 06:59	NWTPH-Dx	
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	27.1	mg/kg dry	1	07/15/23 01:58	NWTPH-Dx	
Oil	ND	---	54.2	mg/kg dry	1	07/15/23 01:58	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %		Limits: 50-150 %	1	07/15/23 01:58	NWTPH-Dx	
DP-7(17.0-18.0) (A3G1002-19)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	27.3	mg/kg dry	1	07/15/23 02:19	NWTPH-Dx	
Oil	ND	---	54.7	mg/kg dry	1	07/15/23 02:19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %	1	07/15/23 02:19	NWTPH-Dx	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1221	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1232	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1242	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1248	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1254	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1260	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			Recovery: 89 %	Limits: 60-125 %	1	07/20/23 14:50	EPA 8082A	
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1221	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1232	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1242	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1248	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1254	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1260	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			Recovery: 97 %	Limits: 60-125 %	1	07/20/23 15:25	EPA 8082A	
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1221	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1232	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1242	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1248	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1254	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1260	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			Recovery: 107 %	Limits: 60-125 %	1	07/20/23 14:50	EPA 8082A	
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1221	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1232	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1242	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1248	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1254	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1260	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)			Recovery: 93 %	Limits: 60-125 %	1	07/20/23 15:25	EPA 8082A	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 07 21 23 2236

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(3.0-4.0) (A3G1002-07)				Matrix: Soil		Batch: 23G0354		
% Solids	75.2	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0354		
% Solids	74.2	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-2(10.0-12.0) (A3G1002-09)				Matrix: Soil		Batch: 23G0354		
% Solids	78.5	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-2(16.0-18.0) (A3G1002-10)				Matrix: Soil		Batch: 23G0354		
% Solids	76.0	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0354		
% Solids	84.3	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-4(6.0-8.0) (A3G1002-12)				Matrix: Soil		Batch: 23G0354		
% Solids	73.5	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-5(10.0-12.0) (A3G1002-14)				Matrix: Soil		Batch: 23G0354		
% Solids	74.8	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0354		
% Solids	78.0	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-6(12.0-14.0) (A3G1002-16)				Matrix: Soil		Batch: 23G0354		
% Solids	71.6	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0354		
% Solids	71.3	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-7(17.0-18.0) (A3G1002-19)				Matrix: Soil		Batch: 23G0354		
% Solids	70.6	---	1.00	%	1	07/14/23 08:27	EPA 8000D	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236**

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0386 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (23G0386-BLK1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:05									
NWTPH-Dx												
Diesel	ND	---	0.200	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.400	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %		Dilution: 1x						
LCS (23G0386-BS1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:28									
NWTPH-Dx												
Diesel	0.944	---	0.200	mg/L	1	1.25	---	76	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (23G0386-BSD1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:52									Q-19
NWTPH-Dx												
Diesel	0.892	---	0.200	mg/L	1	1.25	---	71	36-132%	6	30%	
Surr: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %		Dilution: 1x						
Batch 23G0412 - EPA 3546 (Fuels)						Soil						
Blank (23G0412-BLK1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 21:50									
NWTPH-Dx												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
LCS (23G0412-BS1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:11									
NWTPH-Dx												
Diesel	111	---	20.0	mg/kg wet	1	125	---	88	38-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (23G0412-DUP1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:52									
QC Source Sample: DP-1(3.0-4.0) (A3G1002-07)												
NWTPH-Dx												
Diesel	ND	---	25.4	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.9	mg/kg dry	1	---	ND	---	---	---	30%	

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 07 21 23 2236

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0412 - EPA 3546 (Fuels)						Soil						
Duplicate (23G0412-DUP1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:52									
<u>QC Source Sample: DP-1(3.0-4.0) (A3G1002-07)</u>												
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (23G0412-DUP2)			Prepared: 07/14/23 13:20 Analyzed: 07/15/23 02:39									
<u>QC Source Sample: DP-7(17.0-18.0) (A3G1002-19)</u>												
<u>NWTPH-Dx</u>												
Diesel	ND	---	26.3	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	52.6	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0527 - EPA 3546						Soil						
Blank (23G0527-BLK1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 11:53		C-07					
EPA 8082A												
Aroclor 1016	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 115 %		Limits: 60-125 %		Dilution: 1x						
LCS (23G0527-BS1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 12:11		C-07					
EPA 8082A												
Aroclor 1016	190	---	4.00	ug/kg wet	1	250	---	76	47-134%	---	---	
Aroclor 1260	232	---	4.00	ug/kg wet	1	250	---	93	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 111 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (23G0527-DUP1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 13:04		C-07					
QC Source Sample: Non-SDG (A3G0971-01)												
Aroclor 1016	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 97 %		Limits: 60-125 %		Dilution: 1x						
Matrix Spike (23G0527-MS1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 14:14		C-07					
QC Source Sample: Non-SDG (A3G0971-07)												
EPA 8082A												
Aroclor 1016	227	---	5.10	ug/kg dry	1	319	ND	71	47-134%	---	---	
Aroclor 1260	271	---	5.10	ug/kg dry	1	319	ND	85	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 100 %		Limits: 60-125 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0527 - EPA 3546							Soil					

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 07 21 23 2236

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0354 - Total Solids (Dry Weight) - 2022							Soil					
Duplicate (23G0354-DUP1)			Prepared: 07/13/23 09:41		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G0971-01)												
% Solids	74.0	---	1.00	%	1	---	75.5	---	---	2	10%	
Duplicate (23G0354-DUP2)			Prepared: 07/13/23 09:41		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G0971-02)												
% Solids	75.3	---	1.00	%	1	---	75.9	---	---	0.8	10%	
Duplicate (23G0354-DUP3)			Prepared: 07/13/23 09:41		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G0971-03)												
% Solids	78.0	---	1.00	%	1	---	78.1	---	---	0.1	10%	
Duplicate (23G0354-DUP4)			Prepared: 07/13/23 09:41		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G0971-04)												
% Solids	80.6	---	1.00	%	1	---	79.6	---	---	1	10%	
Duplicate (23G0354-DUP5)			Prepared: 07/13/23 18:25		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G1055-01)												
% Solids	94.3	---	1.00	%	1	---	55.3	---	---	52	10%	Q-04
Duplicate (23G0354-DUP6)			Prepared: 07/13/23 18:25		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G1055-02)												
% Solids	93.6	---	1.00	%	1	---	92.8	---	---	0.8	10%	
Duplicate (23G0354-DUP7)			Prepared: 07/13/23 19:07		Analyzed: 07/14/23 08:27							
QC Source Sample: Non-SDG (A3G1063-07)												
% Solids	79.4	---	1.00	%	1	---	78.9	---	---	0.6	10%	

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

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236**

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0386							
A3G1002-01	Water	NWTPH-Dx	07/11/23 13:30	07/14/23 07:25	1050mL/5mL	1000mL/5mL	0.95
A3G1002-02	Water	NWTPH-Dx	07/11/23 14:30	07/14/23 07:25	980mL/5mL	1000mL/5mL	1.02
A3G1002-03	Water	NWTPH-Dx	07/11/23 16:00	07/14/23 07:25	1030mL/5mL	1000mL/5mL	0.97
A3G1002-04	Water	NWTPH-Dx	07/12/23 08:26	07/14/23 07:25	1040mL/5mL	1000mL/5mL	0.96
A3G1002-05	Water	NWTPH-Dx	07/12/23 09:00	07/14/23 07:25	1000mL/5mL	1000mL/5mL	1.00
A3G1002-06	Water	NWTPH-Dx	07/12/23 09:30	07/14/23 07:25	1070mL/5mL	1000mL/5mL	0.94
A3G1002-13	Water	NWTPH-Dx	07/12/23 12:30	07/14/23 07:25	940mL/5mL	1000mL/5mL	1.06
A3G1002-17	Water	NWTPH-Dx	07/12/23 15:10	07/14/23 07:25	760mL/5mL	1000mL/5mL	1.32

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0412							
A3G1002-07	Soil	NWTPH-Dx	07/12/23 09:30	07/14/23 13:20	10.81g/5mL	10g/5mL	0.93
A3G1002-08	Soil	NWTPH-Dx	07/12/23 09:35	07/14/23 13:20	10.86g/5mL	10g/5mL	0.92
A3G1002-09	Soil	NWTPH-Dx	07/12/23 10:05	07/14/23 13:20	10.6g/5mL	10g/5mL	0.94
A3G1002-10	Soil	NWTPH-Dx	07/12/23 10:10	07/14/23 13:20	10.5g/5mL	10g/5mL	0.95
A3G1002-11	Soil	NWTPH-Dx	07/12/23 11:30	07/14/23 13:20	10.44g/5mL	10g/5mL	0.96
A3G1002-12	Soil	NWTPH-Dx	07/12/23 12:10	07/14/23 13:20	10.55g/5mL	10g/5mL	0.95
A3G1002-14	Soil	NWTPH-Dx	07/12/23 14:00	07/14/23 13:20	10.11g/5mL	10g/5mL	0.99
A3G1002-15	Soil	NWTPH-Dx	07/12/23 14:05	07/14/23 13:20	10.26g/5mL	10g/5mL	0.98
A3G1002-16	Soil	NWTPH-Dx	07/12/23 15:00	07/14/23 13:20	10.4g/5mL	10g/5mL	0.96
A3G1002-18	Soil	NWTPH-Dx	07/12/23 16:10	07/14/23 13:20	10.35g/5mL	10g/5mL	0.97
A3G1002-19	Soil	NWTPH-Dx	07/12/23 16:20	07/14/23 13:20	10.36g/5mL	10g/5mL	0.97

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0527							
A3G1002-08	Soil	EPA 8082A	07/12/23 09:35	07/19/23 09:55	10.88g/5mL	10g/5mL	0.92
A3G1002-11	Soil	EPA 8082A	07/12/23 11:30	07/19/23 09:55	10.05g/5mL	10g/5mL	1.00
A3G1002-15	Soil	EPA 8082A	07/12/23 14:05	07/19/23 09:55	10.49g/5mL	10g/5mL	0.95
A3G1002-18	Soil	EPA 8082A	07/12/23 16:10	07/19/23 09:55	10.27g/5mL	10g/5mL	0.97

Percent Dry Weight

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg, Lab Director

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236****SAMPLE PREPARATION INFORMATION****Percent Dry Weight****Prep: Total Solids (Dry Weight) - 2022**

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 23G0354							
A3G1002-07	Soil	EPA 8000D	07/12/23 09:30	07/13/23 09:41			NA
A3G1002-08	Soil	EPA 8000D	07/12/23 09:35	07/13/23 09:41			NA
A3G1002-09	Soil	EPA 8000D	07/12/23 10:05	07/13/23 09:41			NA
A3G1002-10	Soil	EPA 8000D	07/12/23 10:10	07/13/23 09:41			NA
A3G1002-11	Soil	EPA 8000D	07/12/23 11:30	07/13/23 09:41			NA
A3G1002-12	Soil	EPA 8000D	07/12/23 12:10	07/13/23 09:41			NA
A3G1002-14	Soil	EPA 8000D	07/12/23 14:00	07/13/23 09:41			NA
A3G1002-15	Soil	EPA 8000D	07/12/23 14:05	07/13/23 09:41			NA
A3G1002-16	Soil	EPA 8000D	07/12/23 15:00	07/13/23 09:41			NA
A3G1002-18	Soil	EPA 8000D	07/12/23 16:10	07/13/23 09:41			NA
A3G1002-19	Soil	EPA 8000D	07/12/23 16:20	07/13/23 09:41			NA

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

QUALIFIER DEFINITIONS

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

Apex Laboratories

- C-07 Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-04 Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-19 Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236****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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236****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

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 07 21 23 2236****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation
<u>All reported analytes are included in Apex Laboratories' current ORELAP scope.</u>					

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

APEX LABS		CHAIN OF CUSTODY		Project Name: _____		Project #: BNA-1-02	
Company: SEC		Project Mgr: Andrew Blake		Phone: 971-371-0404		Email: a.blake@succeed-env.com	
Address: 1631 NE Broadway #211, 97232		Date: 7/12/23		Time: 14:30		PO #	
Sampled by: Andrew Blake		DATE		TIME		MATRIX	
Site Location:		DATE		TIME		MATRIX	
State: OR		DATE		TIME		MATRIX	
County: Polk		DATE		TIME		MATRIX	
SAMPLE ID		DATE		TIME		MATRIX	
MW-4	7/12/23	13:30	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
MW-8	7/12/23	14:30	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
MW-2	7/12/23	16:00	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
MW-3	7/12/23	16:26	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
MW-7	7/12/23	08:00	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
MW-1	7/12/23	08:38	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
DP-1 (3.0-4.0)	7/12/23	07:50	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
DP-1 (15.0-17.0)	7/12/23	09:35	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
DP-2 (10.0-12.0)	7/12/23	10:05	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX
DP-2 (16.0-18.0)	7/12/23	10:10	1	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	8260 BTEX

ANALYSIS REQUEST	
8081 Pesticides	
8082 PCBs	
8270 Semi-Vols Full List	
8270 SIM PAHs	
8260 Halo VOCs	
8260 RBDM VOCs	
8260 Halo VOCs	
8260 VOCs Full List	
RCRA Metals (8)	
Priority Metals (13)	
Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	
TOTAL DISS. TC.P	
TC.P Metals (8)	
Hold Sample	
Frozen Archive	

SPECIAL INSTRUCTIONS:	
Standard Turn Around Time (TAT) = 10 Business Days	
1 Day	2 Day
5 Day	3 Day
TAT Requested (circle)	Other: _____

RECEIVED BY:	
Signature: _____	Date: 7/12/23
Printed Name: _____	Time: 5:15
Company: SEC	

RECEIVED BY:	
Signature: _____	Date: 7/12/23
Printed Name: _____	Time: 17:15
Company: _____	

RECEIVED BY:	
Signature: _____	Date: _____
Printed Name: _____	Time: _____
Company: _____	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 07 21 23 2236

APEX LABS 6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		CHAIN OF CUSTODY		Lab # <u>A3G1002</u> COC <u>2 of 2</u>	
Company: <u>SEC</u>	Project Mgr: <u>Andrew Blake</u>	Project Name: <u>---</u>	Project #: <u>BNA-1-02</u>	PO # <u>---</u>	
Address: <u>1631 NE Broadway #111, 97232</u>		Email: <u>adblake@succeed-environment.com</u>			
Sampled by: <u>Andrew Blake</u>		ANALYSIS REQUEST			
Site Location:					
State <u>OR</u>	County <u>Folk</u>				
SAMPLE ID	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID
DP-3 (15.0-17.0)	7/12/23	11:30	SS	1	X
DP-4 (6.0-8.0)	7/12/23	12:10	SS	1	X
DP-4	7/12/23	12:30	W	3	X
DP-5 (10.0-12.0)	7/12/23	14:00	SS	1	X
DP-5 (18.0-20.0)	7/12/23	14:05	SS	1	X
DP-6 (12.0-14.0)	7/12/23	15:00	SS	1	X
DP-6	7/12/23	15:10	W	2	X
DP-7 (10.0-11.0)	7/12/23	16:10	S	1	X
DP-7 (17.0-18.0)	7/12/23	16:20	S	1	X
SPECIAL INSTRUCTIONS:					
Standard Turn Around Time (TAT) = 10 Business Days					
TAT Requested (circle) 1 Day 2 Day <u>3 Day</u> Other: _____					
SAMPLES ARE HELD FOR 30 DAYS					
RELINQUISHED BY: Signature: <u>[Signature]</u> Printed Name: <u>Andrew Blake</u> Company: <u>SEC</u>	RECEIVED BY: Signature: <u>[Signature]</u> Printed Name: <u>Andrew Blake</u> Company: <u>SEC</u>	Date: <u>7/12/23</u> Time: <u>5:45</u>	Date: <u>7/12/23</u> Time: <u>1745</u>	Form Y-002 R-00	

Apex Laboratories

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Philip Nerenberg

Philip Nerenberg, Lab Director



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.

Report ID:

A3G1002 - 07 21 23 2236

APEX LABS COOLER RECEIPT FORMClient: SEC Element WO#: A3G1002Project/Project #: BNA-1-02Delivery Info:Date/time received: 7/12/23 @ 1745 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 7/12/23 @ 1747 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.4</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) ☒ Possible reason why:Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 7/12/23 @ 18:10 By: KHPAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments: time slightly smudged off on 1L unpres. Amber for pp-6COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Limited volume in 1L unpres. Amber for pp-6Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐Comments: Had 1L Amber pH = 7 for pp-6, 10 room to preserveAdditional information:Labeled by: JSWitness: JSCooler Inspected by: KHP

Form Y-003 R-00 -

Apex Laboratories

Philip Nerenberg, Lab Director

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



ANALYTICAL REPORT

AMENDED REPORT

Apex Laboratories, LLC

6700 S.W. Sandburg Street

Tigard, OR 97223

503-718-2323

ORELAP ID: OR100062

Thursday, February 13, 2025

Andrew S. Blake, R.G., L.G.

Succeed Environmental Consulting

6028 NE 49th Ave.

Portland, OR 97218

RE: A3G1002 - BNA-1-02 - BNA-1-02

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 A3G1002, which was received by the laboratory on 7/12/2023 at 5:45:00PM.

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 3.4 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

Philip Nerenberg

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

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 02 13 25 2111****ANALYTICAL REPORT FOR SAMPLES****SAMPLE INFORMATION**

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
MW-4	A3G1002-01	Water	07/11/23 13:30	07/12/23 17:45
MW-8	A3G1002-02	Water	07/11/23 14:30	07/12/23 17:45
MW-2	A3G1002-03	Water	07/11/23 16:00	07/12/23 17:45
MW-3	A3G1002-04	Water	07/12/23 08:26	07/12/23 17:45
MW-7	A3G1002-05	Water	07/12/23 09:00	07/12/23 17:45
MW-1	A3G1002-06	Water	07/12/23 09:30	07/12/23 17:45
DP-1(3.0-4.0)	A3G1002-07	Soil	07/12/23 09:30	07/12/23 17:45
DP-1(15.0-17.0)	A3G1002-08	Soil	07/12/23 09:35	07/12/23 17:45
DP-2(10.0-12.0)	A3G1002-09	Soil	07/12/23 10:05	07/12/23 17:45
DP-2(16.0-18.0)	A3G1002-10	Soil	07/12/23 10:10	07/12/23 17:45
DP-3(15.0-17.0)	A3G1002-11	Soil	07/12/23 11:30	07/12/23 17:45
DP-4(6.0-8.0)	A3G1002-12	Soil	07/12/23 12:10	07/12/23 17:45
DP-4	A3G1002-13	Water	07/12/23 12:30	07/12/23 17:45
DP-5(10.0-12.0)	A3G1002-14	Soil	07/12/23 14:00	07/12/23 17:45
DP-5(18.0-20.0)	A3G1002-15	Soil	07/12/23 14:05	07/12/23 17:45
DP-6(12.0-14.0)	A3G1002-16	Soil	07/12/23 15:00	07/12/23 17:45
DP-6	A3G1002-17	Water	07/12/23 15:10	07/12/23 17:45
DP-7(10.0-11.0)	A3G1002-18	Soil	07/12/23 16:10	07/12/23 17:45
DP-7(17.0-18.0)	A3G1002-19	Soil	07/12/23 16:20	07/12/23 17:45

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

Page 2 of 24



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL CASE NARRATIVE

A3G1002

Apex Laboratories

Amended Report Revision 1

This report supersedes all previous reports.

The Final Report has been amended to include 8082 PCBs results for samples DP-1(15.0-17.0), DP-3(15.0-17.0), DP-5(18.0-20.0), and DP-7(10.0-11.0) (Apex Lab WO A3G1002-08, -11, -15, and -18).

Cameron O'Brien
Project Manager
7/18/23

Amended Report Revision 2

This report supersedes all previous reports.

Aroclors 1262 and 1268 have been added to the PCBs analysis in this report version.

Philip Nerenberg
Lab Director
2/13/25

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



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
MW-4 (A3G1002-01)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.190	mg/L	1	07/15/23 04:15	NWTPH-Dx	
Oil	ND	---	0.381	mg/L	1	07/15/23 04:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	07/15/23 04:15	NWTPH-Dx	
MW-8 (A3G1002-02)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.204	mg/L	1	07/15/23 04:38	NWTPH-Dx	
Oil	ND	---	0.408	mg/L	1	07/15/23 04:38	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 80 %		Limits: 50-150 %	1	07/15/23 04:38	NWTPH-Dx	
MW-2 (A3G1002-03)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.194	mg/L	1	07/15/23 05:02	NWTPH-Dx	
Oil	ND	---	0.388	mg/L	1	07/15/23 05:02	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %	1	07/15/23 05:02	NWTPH-Dx	
MW-3 (A3G1002-04)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.192	mg/L	1	07/15/23 05:25	NWTPH-Dx	
Oil	ND	---	0.385	mg/L	1	07/15/23 05:25	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %	1	07/15/23 05:25	NWTPH-Dx	
MW-7 (A3G1002-05)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.200	mg/L	1	07/15/23 05:49	NWTPH-Dx	
Oil	ND	---	0.400	mg/L	1	07/15/23 05:49	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	07/15/23 05:49	NWTPH-Dx	
MW-1 (A3G1002-06)		Matrix: Water			Batch: 23G0386			
Diesel	ND	---	0.187	mg/L	1	07/15/23 06:12	NWTPH-Dx	
Oil	ND	---	0.374	mg/L	1	07/15/23 06:12	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 77 %		Limits: 50-150 %	1	07/15/23 06:12	NWTPH-Dx	
DP-1(3.0-4.0) (A3G1002-07)		Matrix: Soil			Batch: 23G0412			
Diesel	ND	---	24.6	mg/kg dry	1	07/14/23 22:31	NWTPH-Dx	
Oil	ND	---	49.2	mg/kg dry	1	07/14/23 22:31	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %		Limits: 50-150 %	1	07/14/23 22:31	NWTPH-Dx	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	24.8	mg/kg dry	1	07/14/23 23:13	NWTPH-Dx	
Oil	ND	---	49.6	mg/kg dry	1	07/14/23 23:13	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	07/14/23 23:13	NWTPH-Dx	
DP-2(10.0-12.0) (A3G1002-09)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	24.0	mg/kg dry	1	07/14/23 23:33	NWTPH-Dx	
Oil	ND	---	48.1	mg/kg dry	1	07/14/23 23:33	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 89 %		Limits: 50-150 %	1	07/14/23 23:33	NWTPH-Dx	
DP-2(16.0-18.0) (A3G1002-10)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.1	mg/kg dry	1	07/14/23 23:54	NWTPH-Dx	
Oil	ND	---	50.1	mg/kg dry	1	07/14/23 23:54	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 84 %		Limits: 50-150 %	1	07/14/23 23:54	NWTPH-Dx	
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	22.7	mg/kg dry	1	07/15/23 00:15	NWTPH-Dx	
Oil	ND	---	45.4	mg/kg dry	1	07/15/23 00:15	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 86 %		Limits: 50-150 %	1	07/15/23 00:15	NWTPH-Dx	
DP-4(6.0-8.0) (A3G1002-12)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.8	mg/kg dry	1	07/15/23 00:35	NWTPH-Dx	
Oil	ND	---	51.6	mg/kg dry	1	07/15/23 00:35	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %	1	07/15/23 00:35	NWTPH-Dx	
DP-4 (A3G1002-13)				Matrix: Water		Batch: 23G0386		
Diesel	ND	---	0.213	mg/L	1	07/15/23 06:36	NWTPH-Dx	
Oil	ND	---	0.426	mg/L	1	07/15/23 06:36	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %		Limits: 50-150 %	1	07/15/23 06:36	NWTPH-Dx	
DP-5(10.0-12.0) (A3G1002-14)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	26.5	mg/kg dry	1	07/15/23 00:56	NWTPH-Dx	
Oil	ND	---	52.9	mg/kg dry	1	07/15/23 00:56	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 88 %		Limits: 50-150 %	1	07/15/23 00:56	NWTPH-Dx	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	25.0	mg/kg dry	1	07/15/23 01:17	NWTPH-Dx	
Oil	ND	---	50.0	mg/kg dry	1	07/15/23 01:17	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 74 %	Limits: 50-150 %	1	07/15/23 01:17	NWTPH-Dx		
DP-6(12.0-14.0) (A3G1002-16)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	26.9	mg/kg dry	1	07/15/23 01:37	NWTPH-Dx	
Oil	ND	---	53.8	mg/kg dry	1	07/15/23 01:37	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 81 %	Limits: 50-150 %	1	07/15/23 01:37	NWTPH-Dx		
DP-6 (A3G1002-17)				Matrix: Water		Batch: 23G0386		
Diesel	ND	---	0.263	mg/L	1	07/15/23 06:59	NWTPH-Dx	
Oil	ND	---	0.526	mg/L	1	07/15/23 06:59	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 76 %	Limits: 50-150 %	1	07/15/23 06:59	NWTPH-Dx		
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	27.1	mg/kg dry	1	07/15/23 01:58	NWTPH-Dx	
Oil	ND	---	54.2	mg/kg dry	1	07/15/23 01:58	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 85 %	Limits: 50-150 %	1	07/15/23 01:58	NWTPH-Dx		
DP-7(17.0-18.0) (A3G1002-19)				Matrix: Soil		Batch: 23G0412		
Diesel	ND	---	27.3	mg/kg dry	1	07/15/23 02:19	NWTPH-Dx	
Oil	ND	---	54.7	mg/kg dry	1	07/15/23 02:19	NWTPH-Dx	
Surrogate: o-Terphenyl (Surr)		Recovery: 84 %	Limits: 50-150 %	1	07/15/23 02:19	NWTPH-Dx		

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1221	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1232	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1242	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1248	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1254	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1260	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1262	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1268	ND	---	12.4	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 89 %	Limits: 60-125 %	1	07/20/23 14:50	EPA 8082A		
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1221	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1232	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1242	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1248	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1254	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1260	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1262	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1268	ND	---	11.8	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 97 %	Limits: 60-125 %	1	07/20/23 15:25	EPA 8082A		
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0527		C-07
Aroclor 1016	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1221	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1232	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1242	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1248	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1254	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1260	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1262	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	
Aroclor 1268	ND	---	12.2	ug/kg dry	1	07/20/23 14:50	EPA 8082A	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-5(18.0-20.0) (A3G1002-15)			Matrix: Soil		Batch: 23G0527		C-07	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 107 %		Limits: 60-125 %	1	07/20/23 14:50	EPA 8082A	
DP-7(10.0-11.0) (A3G1002-18)			Matrix: Soil		Batch: 23G0527		C-07	
Aroclor 1016	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1221	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1232	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1242	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1248	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1254	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1260	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1262	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Aroclor 1268	ND	---	13.6	ug/kg dry	1	07/20/23 15:25	EPA 8082A	
Surrogate: Decachlorobiphenyl (Surr)		Recovery: 93 %		Limits: 60-125 %	1	07/20/23 15:25	EPA 8082A	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 02 13 25 2111

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
DP-1(3.0-4.0) (A3G1002-07)				Matrix: Soil		Batch: 23G0354		
% Solids	75.2	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-1(15.0-17.0) (A3G1002-08)				Matrix: Soil		Batch: 23G0354		
% Solids	74.2	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-2(10.0-12.0) (A3G1002-09)				Matrix: Soil		Batch: 23G0354		
% Solids	78.5	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-2(16.0-18.0) (A3G1002-10)				Matrix: Soil		Batch: 23G0354		
% Solids	76.0	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-3(15.0-17.0) (A3G1002-11)				Matrix: Soil		Batch: 23G0354		
% Solids	84.3	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-4(6.0-8.0) (A3G1002-12)				Matrix: Soil		Batch: 23G0354		
% Solids	73.5	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-5(10.0-12.0) (A3G1002-14)				Matrix: Soil		Batch: 23G0354		
% Solids	74.8	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-5(18.0-20.0) (A3G1002-15)				Matrix: Soil		Batch: 23G0354		
% Solids	78.0	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-6(12.0-14.0) (A3G1002-16)				Matrix: Soil		Batch: 23G0354		
% Solids	71.6	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-7(10.0-11.0) (A3G1002-18)				Matrix: Soil		Batch: 23G0354		
% Solids	71.3	---	1.00	%	1	07/14/23 08:27	EPA 8000D	
DP-7(17.0-18.0) (A3G1002-19)				Matrix: Soil		Batch: 23G0354		
% Solids	70.6	---	1.00	%	1	07/14/23 08:27	EPA 8000D	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 02 13 25 2111

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0386 - EPA 3510C (Fuels/Acid Ext.)						Water						
Blank (23G0386-BLK1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:05									
<u>NWTPH-Dx</u>												
Diesel	ND	---	0.200	mg/L	1	---	---	---	---	---	---	
Oil	ND	---	0.400	mg/L	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 73 %		Limits: 50-150 %		Dilution: 1x						
LCS (23G0386-BS1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:28									
<u>NWTPH-Dx</u>												
Diesel	0.944	---	0.200	mg/L	1	1.25	---	76	36-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 78 %		Limits: 50-150 %		Dilution: 1x						
LCS Dup (23G0386-BSD1)			Prepared: 07/14/23 07:25 Analyzed: 07/15/23 03:52									Q-19
<u>NWTPH-Dx</u>												
Diesel	0.892	---	0.200	mg/L	1	1.25	---	71	36-132%	6	30%	
Surr: o-Terphenyl (Surr)		Recovery: 82 %		Limits: 50-150 %		Dilution: 1x						
Batch 23G0412 - EPA 3546 (Fuels)						Soil						
Blank (23G0412-BLK1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 21:50									
<u>NWTPH-Dx</u>												
Diesel	ND	---	20.0	mg/kg wet	1	---	---	---	---	---	---	
Oil	ND	---	40.0	mg/kg wet	1	---	---	---	---	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 87 %		Limits: 50-150 %		Dilution: 1x						
LCS (23G0412-BS1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:11									
<u>NWTPH-Dx</u>												
Diesel	111	---	20.0	mg/kg wet	1	125	---	88	38-132%	---	---	
Surr: o-Terphenyl (Surr)		Recovery: 91 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (23G0412-DUP1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:52									
<u>QC Source Sample: DP-1(3.0-4.0) (A3G1002-07)</u>												
<u>NWTPH-Dx</u>												
Diesel	ND	---	25.4	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	50.9	mg/kg dry	1	---	ND	---	---	---	30%	

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 02 13 25 2111

QUALITY CONTROL (QC) SAMPLE RESULTS

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0412 - EPA 3546 (Fuels)						Soil						
Duplicate (23G0412-DUP1)			Prepared: 07/14/23 13:20 Analyzed: 07/14/23 22:52									
<u>QC Source Sample: DP-1(3.0-4.0) (A3G1002-07)</u>												
Surr: o-Terphenyl (Surr)		Recovery: 83 %		Limits: 50-150 %		Dilution: 1x						
Duplicate (23G0412-DUP2)			Prepared: 07/14/23 13:20 Analyzed: 07/15/23 02:39									
<u>QC Source Sample: DP-7(17.0-18.0) (A3G1002-19)</u>												
<u>NWTPH-Dx</u>												
Diesel	ND	---	26.3	mg/kg dry	1	---	ND	---	---	---	30%	
Oil	ND	---	52.6	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: o-Terphenyl (Surr)		Recovery: 75 %		Limits: 50-150 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0527 - EPA 3546												
Soil												
Blank (23G0527-BLK1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 11:53		C-07					
EPA 8082A												
Aroclor 1016	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1221	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1232	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1242	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1248	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1254	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1260	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1262	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Aroclor 1268	ND	---	4.00	ug/kg wet	1	---	---	---	---	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 115 %		Limits: 60-125 %		Dilution: 1x						
LCS (23G0527-BS1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 12:11		C-07					
EPA 8082A												
Aroclor 1016	190	---	4.00	ug/kg wet	1	250	---	76	47-134%	---	---	
Aroclor 1260	232	---	4.00	ug/kg wet	1	250	---	93	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 111 %		Limits: 60-125 %		Dilution: 1x						
Duplicate (23G0527-DUP1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 13:04		C-07					
QC Source Sample: Non-SDG (A3G0971-01)												
Aroclor 1016	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1221	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1232	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1242	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1248	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1254	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1260	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1262	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Aroclor 1268	ND	---	5.09	ug/kg dry	1	---	ND	---	---	---	30%	
Surr: Decachlorobiphenyl (Surr)		Recovery: 97 %		Limits: 60-125 %		Dilution: 1x						
Matrix Spike (23G0527-MS1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 14:14		C-07					
QC Source Sample: Non-SDG (A3G0971-07)												

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 02 13 25 2111

QUALITY CONTROL (QC) SAMPLE RESULTS

Polychlorinated Biphenyls by EPA 8082A

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0527 - EPA 3546						Soil						
Matrix Spike (23G0527-MS1)			Prepared: 07/19/23 09:55		Analyzed: 07/20/23 14:14		C-07					
QC Source Sample: Non-SDG (A3G0971-07)												
EPA 8082A												
Aroclor 1016	227	---	5.10	ug/kg dry	1	319	ND	71	47-134%	---	---	
Aroclor 1260	271	---	5.10	ug/kg dry	1	319	ND	85	53-140%	---	---	
Surr: Decachlorobiphenyl (Surr)		Recovery: 100 %		Limits: 60-125 %		Dilution: 1x						

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 02 13 25 2111**

QUALITY CONTROL (QC) SAMPLE RESULTS

Percent Dry Weight

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 23G0354 - Dry Weight Prep (EPA 8000D)							Soil					
Duplicate (23G0354-DUP1)			Prepared: 07/13/23 09:41 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G0971-01)												
% Solids	74.0	---	1.00	%	1	---	75.5	---	---	2	10%	
Duplicate (23G0354-DUP2)			Prepared: 07/13/23 09:41 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G0971-02)												
% Solids	75.3	---	1.00	%	1	---	75.9	---	---	0.8	10%	
Duplicate (23G0354-DUP3)			Prepared: 07/13/23 09:41 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G0971-03)												
% Solids	78.0	---	1.00	%	1	---	78.1	---	---	0.1	10%	
Duplicate (23G0354-DUP4)			Prepared: 07/13/23 09:41 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G0971-04)												
% Solids	80.6	---	1.00	%	1	---	79.6	---	---	1	10%	
Duplicate (23G0354-DUP5)			Prepared: 07/13/23 18:25 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G1055-01)												
% Solids	94.3	---	1.00	%	1	---	55.3	---	---	52	10%	Q-04
Duplicate (23G0354-DUP6)			Prepared: 07/13/23 18:25 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G1055-02)												
% Solids	93.6	---	1.00	%	1	---	92.8	---	---	0.8	10%	
Duplicate (23G0354-DUP7)			Prepared: 07/13/23 19:07 Analyzed: 07/14/23 08:27									
QC Source Sample: Non-SDG (A3G1063-07)												
% Solids	79.4	---	1.00	%	1	---	78.9	---	---	0.6	10%	

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

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

SAMPLE PREPARATION INFORMATION

Diesel and/or Oil Hydrocarbons by NWTPH-Dx

Prep: EPA 3510C (Fuels/Acid Ext.)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23G0386</u>							
A3G1002-01	Water	NWTPH-Dx	07/11/23 13:30	07/14/23 07:25	1050mL/5mL	1000mL/5mL	0.95
A3G1002-02	Water	NWTPH-Dx	07/11/23 14:30	07/14/23 07:25	980mL/5mL	1000mL/5mL	1.02
A3G1002-03	Water	NWTPH-Dx	07/11/23 16:00	07/14/23 07:25	1030mL/5mL	1000mL/5mL	0.97
A3G1002-04	Water	NWTPH-Dx	07/12/23 08:26	07/14/23 07:25	1040mL/5mL	1000mL/5mL	0.96
A3G1002-05	Water	NWTPH-Dx	07/12/23 09:00	07/14/23 07:25	1000mL/5mL	1000mL/5mL	1.00
A3G1002-06	Water	NWTPH-Dx	07/12/23 09:30	07/14/23 07:25	1070mL/5mL	1000mL/5mL	0.94
A3G1002-13	Water	NWTPH-Dx	07/12/23 12:30	07/14/23 07:25	940mL/5mL	1000mL/5mL	1.06
A3G1002-17	Water	NWTPH-Dx	07/12/23 15:10	07/14/23 07:25	760mL/5mL	1000mL/5mL	1.32

Prep: EPA 3546 (Fuels)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23G0412</u>							
A3G1002-07	Soil	NWTPH-Dx	07/12/23 09:30	07/14/23 13:20	10.81g/5mL	10g/5mL	0.93
A3G1002-08	Soil	NWTPH-Dx	07/12/23 09:35	07/14/23 13:20	10.86g/5mL	10g/5mL	0.92
A3G1002-09	Soil	NWTPH-Dx	07/12/23 10:05	07/14/23 13:20	10.6g/5mL	10g/5mL	0.94
A3G1002-10	Soil	NWTPH-Dx	07/12/23 10:10	07/14/23 13:20	10.5g/5mL	10g/5mL	0.95
A3G1002-11	Soil	NWTPH-Dx	07/12/23 11:30	07/14/23 13:20	10.44g/5mL	10g/5mL	0.96
A3G1002-12	Soil	NWTPH-Dx	07/12/23 12:10	07/14/23 13:20	10.55g/5mL	10g/5mL	0.95
A3G1002-14	Soil	NWTPH-Dx	07/12/23 14:00	07/14/23 13:20	10.11g/5mL	10g/5mL	0.99
A3G1002-15	Soil	NWTPH-Dx	07/12/23 14:05	07/14/23 13:20	10.26g/5mL	10g/5mL	0.98
A3G1002-16	Soil	NWTPH-Dx	07/12/23 15:00	07/14/23 13:20	10.4g/5mL	10g/5mL	0.96
A3G1002-18	Soil	NWTPH-Dx	07/12/23 16:10	07/14/23 13:20	10.35g/5mL	10g/5mL	0.97
A3G1002-19	Soil	NWTPH-Dx	07/12/23 16:20	07/14/23 13:20	10.36g/5mL	10g/5mL	0.97

Polychlorinated Biphenyls by EPA 8082A

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23G0527</u>							
A3G1002-08	Soil	EPA 8082A	07/12/23 09:35	07/19/23 09:55	10.88g/5mL	10g/5mL	0.92
A3G1002-11	Soil	EPA 8082A	07/12/23 11:30	07/19/23 09:55	10.05g/5mL	10g/5mL	1.00
A3G1002-15	Soil	EPA 8082A	07/12/23 14:05	07/19/23 09:55	10.49g/5mL	10g/5mL	0.95
A3G1002-18	Soil	EPA 8082A	07/12/23 16:10	07/19/23 09:55	10.27g/5mL	10g/5mL	0.97

Percent Dry Weight

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.Report ID:

A3G1002 - 02 13 25 2111

SAMPLE PREPARATION INFORMATION

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
<u>Batch: 23G0354</u>							
A3G1002-07	Soil	EPA 8000D	07/12/23 09:30	07/13/23 09:41	1g	1g	1.00
A3G1002-08	Soil	EPA 8000D	07/12/23 09:35	07/13/23 09:41	1g	1g	1.00
A3G1002-09	Soil	EPA 8000D	07/12/23 10:05	07/13/23 09:41	1g	1g	1.00
A3G1002-10	Soil	EPA 8000D	07/12/23 10:10	07/13/23 09:41	1g	1g	1.00
A3G1002-11	Soil	EPA 8000D	07/12/23 11:30	07/13/23 09:41	1g	1g	1.00
A3G1002-12	Soil	EPA 8000D	07/12/23 12:10	07/13/23 09:41	1g	1g	1.00
A3G1002-14	Soil	EPA 8000D	07/12/23 14:00	07/13/23 09:41	1g	1g	1.00
A3G1002-15	Soil	EPA 8000D	07/12/23 14:05	07/13/23 09:41	1g	1g	1.00
A3G1002-16	Soil	EPA 8000D	07/12/23 15:00	07/13/23 09:41	1g	1g	1.00
A3G1002-18	Soil	EPA 8000D	07/12/23 16:10	07/13/23 09:41	1g	1g	1.00
A3G1002-19	Soil	EPA 8000D	07/12/23 16:20	07/13/23 09:41	1g	1g	1.00

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

QUALIFIER DEFINITIONS

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

Apex Laboratories

- C-07** Extract has undergone Sulfuric Acid Cleanup by EPA 3665A, Sulfur Cleanup by EPA 3660B, and Florisil Cleanup by EPA 3620B in order to minimize matrix interference.
- Q-04** Spike recovery and/or RPD is outside control limits due to a non-homogeneous sample matrix.
- Q-19** Blank Spike Duplicate (BSD) sample analyzed in place of Matrix Spike/Duplicate samples due to limited sample amount available for analysis.

Apex Laboratories

Philip Nerenberg, Lab Director

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.

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 02 13 25 2111****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)

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 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 Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: **BNA-1-02**

Project Number: **BNA-1-02**

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

Report ID:

A3G1002 - 02 13 25 2111

REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

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

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

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

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

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

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

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

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02

Project Number: BNA-1-02

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

Report ID:

A3G1002 - 02 13 25 2111

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 correction 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

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

**ANALYTICAL REPORT****AMENDED REPORT****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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.****Report ID:****A3G1002 - 02 13 25 2111****LABORATORY ACCREDITATION INFORMATION****ORELAP Certification ID: OR100062 (Primary Accreditation)** -**EPA ID: OR01039**

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

Apex Laboratories

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

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

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

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

Field Testing Parameters

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

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: **BNA-1-02**Project Number: **BNA-1-02**Project Manager: **Andrew S. Blake, R.G., L.G.**

Report ID:

A3G1002 - 02 13 25 2111

CHAIN OF CUSTODY

APEX LABS

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

Lab # **A3G1002** COC **1** of **2**

Company: SEC	Project Mgr: Andrew Blake	Project Name: ---	Project #: BNA-1-02
Address: 1631 NE Broadway #211, 97232	Phone: 971-371-0404	Email: ablake@succeed-env.com	PO # ---
Sampled by: Andrew Blake	ANALYSIS REQUEST		
Site Location: State OR, County Polk	SAMPLE ID		
DATE	TIME	MATRIX	# OF CONTAINERS
7/11/23	13:50	W	1
7/11/23	14:30	W	1
7/11/23	16:00	W	1
7/11/23	08:26	W	1
7/11/23	08:00	W	1
7/11/23	07:30	W	1
7/12/23	09:30	SS	1
7/12/23	22:35	SS	1
7/14/23	10:05	SS	1
7/14/23	10:10	SS	1
Standard Turn Around Time (TAT) = 10 Business Days			
TAT Requested (circle) 1 Day 2 Day 3 Day 5 Day Standard Other: ---			
SPECIAL INSTRUCTIONS:			
RELINQUISHED BY: Signature: [Signature] Date: 7/12/23	RECEIVED BY: Signature: [Signature] Date: 7/12/23	Form V-002 R-00	
Printed Name: Andrew Blake	Printed Name: [Signature]		
Company: SEC	Company: Apex		

Apex Laboratories

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.

Report ID:

A3G1002 - 02 13 25 2111

APEX LABS		CHAIN OF CUSTODY		Project Name: <u>BNA-1-02</u>		Project #: <u>BNA-1-02</u>	
6700 SW Sandburg St., Tigard, OR 97223 Ph: 503-718-2323		Project Mgr: <u>Andrew Blake</u>		Phone: <u>971 371-0404</u>		Email: <u>andrew@seec-env.com</u>	
Company: <u>SEC</u>		Address: <u>1631 NE Broadway #211, 97232</u>		PO #		Lab # <u>A3G1002</u> coc <u>2 of 2</u>	
Sampled by: <u>Andrew Blake</u>		Site Location: <u>State <u>OR</u> County <u>Polk</u></u>		DATE		TIME	
SAMPLE ID		MATRIX		# OF CONTAINERS		NWTPH-HCID	
DATE		TIME		MATRIX		# OF CONTAINERS	
DP-3 (15.0-17.0)	7/14/23	11:30	SS	1	X	NWTPH-Dx	8260 BTEX
DP-4 (6.0-8.0)	7/14/23	12:00	SS	1	X	NWTPH-Dx	8260 Halo VOCs
DP-4	7/14/23	12:30	W	3	X	NWTPH-Dx	8260 RBDM VOCs
DP-5 (10.0-12.0)	7/14/23	14:00	SS	1	X	NWTPH-Dx	8260 VOCs Full List
DP-5 (18.0-20.0)	7/14/23	14:05	SS	1	X	NWTPH-Dx	8270 SIM PAHs
DP-6 (12.0-14.0)	7/14/23	15:00	SS	1	X	NWTPH-Dx	8270 Semi-Vols Full List
DP-6	7/14/23	15:10	W	2	X	NWTPH-Dx	8082 PCBs
DP-7 (10.0-11.0)	7/14/23	16:00	SS	1	X	NWTPH-Dx	8081 Pesticides
DP-7 (17.0-18.0)	7/14/23	16:20	SS	1	X	NWTPH-Dx	8082 PCBs
						RCRA Metals (8)	
						Priority Metals (13)	
						Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, Hg, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Ti, V, Zn	
						TOTAL DISS. TCLP	
						TCLP Metals (8)	
						Frozen Archive	
						Hold Sample	

TAT Requested (circle)		Standard Turn Around Time (TAT) = 10 Business Days	
1 Day	2 Day	3 Day	Other:
		<u>3 Day</u>	

RECEIVED BY:		RECEIVED BY:	
Signature:	Date:	Signature:	Date:
<u>[Signature]</u>	<u>7/14/23</u>	<u>[Signature]</u>	<u>7/12/23</u>
Printed Name: <u>Andrew Blake</u>	Time: <u>5:45</u>	Printed Name: <u>[Signature]</u>	Time: <u>1745</u>
Company: <u>SEC</u>		Company: <u>[Signature]</u>	

SPECIAL INSTRUCTIONS:

Form Y-002 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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.



ANALYTICAL REPORT

AMENDED REPORT

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: BNA-1-02Project Number: BNA-1-02Project Manager: Andrew S. Blake, R.G., L.G.

Report ID:

A3G1002 - 02 13 25 2111

APEX LABS COOLER RECEIPT FORMClient: SEC Element WO#: A3G1002Project/Project #: BNA-1-02Delivery Info:Date/time received: 7/12/23 @ 1745 By: JSDelivered by: Apex ☒ Client ☒ ESS ☐ FedEx ☐ UPS ☐ Radio ☐ Morgan ☐ SDS ☐ Evergreen ☐ Other ☐Cooler Inspection Date/time inspected: 7/12/23 @ 1747 By: JSChain of Custody included? Yes ☒ No ☐Signed/dated by client? Yes ☒ No ☐

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	<u>3.4</u>						
Custody seals? (Y/N)	<u>N</u>						
Received on ice? (Y/N)	<u>Y</u>						
Temp. blanks? (Y/N)	<u>N</u>						
Ice type: (Gel/Real/Other)	<u>Real</u>						
Condition (In/Out):	<u>In</u>						

Cooler out of temp? (Y/N) ☒ Possible reason why:Green dots applied to out of temperature samples? Yes ☒ No ☐Out of temperature samples form initiated? Yes ☒ No ☐Sample Inspection: Date/time inspected: 7/12/23 @ 18:10 By: YHPAll samples intact? Yes ☒ No ☐ Comments:Bottle labels/COCs agree? Yes ☒ No ☐ Comments: fine slightly smudged off on 16 unpres. amber for pp-6COC/container discrepancies form initiated? Yes ☐ No ☒Containers/volumes received appropriate for analysis? Yes ☒ No ☐ Comments: Limited volume in 16 unpres. Amber for pp-6Do VOA vials have visible headspace? Yes ☐ No ☐ NA ☒

Comments:

Water samples: pH checked: Yes ☒ No ☐ NA ☐ pH appropriate? Yes ☐ No ☒ NA ☐Comments: Had 16 Amber pH = 7 for pp-6, 10 team to preserveAdditional information:Labeled by: JSWitness: JSCooler Inspected by: YHP

Form Y-003 R-00

Apex Laboratories

Philip Nerenberg

Philip Nerenberg, Lab Director

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.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 25, 2023

Andrew Blake, Project Manager
Succeed Environmental Consulting, LLC
1631 NE Broadway 211
Portland, OR 97232

Dear Mr Blake:

Included are the results from the testing of material submitted on August 22, 2023 from the BNA-1-03, F&BI 308324 project. There are 9 pages included in this report. Any samples that may remain are currently scheduled for disposal in 30 days, or as directed by the Chain of Custody document. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SCD0825R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 22, 2023 by Friedman & Bruya, Inc. from the Succeed Environmental Consulting, LLC BNA-1-03, F&BI 308324 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Succeed Environmental Consulting, LLC</u>
308324 -01	DP-8 (4.0-6.0)
308324 -02	DP-8 (12.0-14.0)
308324 -03	DP-9 (3.0-4.0)
308324 -04	DP-9 (14.0-16.0)
308324 -05	DP-10 (4.0-6.0)
308324 -06	DP-11 (2.0-3.0)
308324 -07	DP-11 (12.0-13.0)
308324 -08	Trip Blank

The 8082A matrix spike and matrix spike and matrix spike duplicate relative percent difference did not meet the acceptance criteria. The analytes were not detected therefore the data were acceptable.

All other quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/25/23

Date Received: 08/22/23

Project: BNA-1-03, F&BI 308324

Date Extracted: 08/22/23

Date Analyzed: 08/22/23

**RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL AND MOTOR OIL
USING METHOD NWTPH-Dx**

Results Reported on a Dry Weight Basis

Results Reported as mg/kg (ppm)

<u>Sample ID</u>	<u>Diesel Range</u>	<u>Motor Oil Range</u>	<u>Surrogate</u>
Laboratory ID	(C ₁₀ -C ₂₅)	(C ₂₅ -C ₃₆)	(% Recovery)
			(Limit 50-150)
DP-8 (4.0-6.0)	<50	<250	82
308324-01			
DP-8 (12.0-14.0)	<50	<250	83
308324-02			
DP-9 (3.0-4.0)	<50	<250	84
308324-03			
DP-9 (14.0-16.0)	<50	<250	85
308324-04			
DP-10 (4.0-6.0)	<50	<250	82
308324-05			
DP-11 (2.0-3.0)	<50	<250	83
308324-06			
DP-11 (12.0-13.0)	<50	<250	81
308324-07			
Method Blank	<50	<250	81
03-2011 MB			

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DP-9 (3.0-4.0)	Client:	Succeed Environmental Consulting, LLC
Date Received:	08/22/23	Project:	BNA-1-03, F&BI 308324
Date Extracted:	08/22/23	Lab ID:	308324-03 1/30
Date Analyzed:	08/22/23	Data File:	082231.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	62	41	139
Decachlorobiphenyl	65	48	145

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DP-10 (4.0-6.0)	Client:	Succeed Environmental Consulting, LLC
Date Received:	08/22/23	Project:	BNA-1-03, F&BI 308324
Date Extracted:	08/22/23	Lab ID:	308324-05 1/30
Date Analyzed:	08/22/23	Data File:	082232.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	62	41	139
Decachlorobiphenyl	74	48	145

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	DP-11 (12.0-13.0)	Client:	Succeed Environmental Consulting, LLC
Date Received:	08/22/23	Project:	BNA-1-03, F&BI 308324
Date Extracted:	08/22/23	Lab ID:	308324-07 1/30
Date Analyzed:	08/22/23	Data File:	082233.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	63	41	139
Decachlorobiphenyl	73	48	145

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For PCBs By EPA Method 8082A

Client Sample ID:	Method Blank	Client:	Succeed Environmental Consulting, LLC
Date Received:	Not Applicable	Project:	BNA-1-03, F&BI 308324
Date Extracted:	08/22/23	Lab ID:	03-2007 mb2 1/30
Date Analyzed:	08/22/23	Data File:	082216.D
Matrix:	Soil	Instrument:	GC12
Units:	mg/kg (ppm) Dry Weight	Operator:	MG

Surrogates:	% Recovery:	Lower Limit:	Upper Limit:
Tetrachlorometaxylene	95	41	139
Decachlorobiphenyl	98	48	145

Compounds:	Concentration mg/kg (ppm)
Aroclor 1221	<0.02
Aroclor 1232	<0.02
Aroclor 1016	<0.02
Aroclor 1242	<0.02
Aroclor 1248	<0.02
Aroclor 1254	<0.02
Aroclor 1260	<0.02
Aroclor 1262	<0.02
Aroclor 1268	<0.02

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/25/23

Date Received: 08/22/23

Project: BNA-1-03, F&BI 308324

**QUALITY ASSURANCE RESULTS FROM THE ANALYSIS OF SOIL SAMPLES
FOR TOTAL PETROLEUM HYDROCARBONS AS
DIESEL EXTENDED USING METHOD NWTPH-D_x**

Laboratory Code: 308321-01 (Matrix Spike)

Analyte	Reporting Units	Spike Level	(Wet wt) Sample Result	Percent Recovery MS	Percent Recovery MSD	Acceptance Criteria	RPD (Limit 20)
Diesel Extended	mg/kg (ppm)	5,000	<50	102	104	64-136	2

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Diesel Extended	mg/kg (ppm)	5,000	112	78-121

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/25/23

Date Received: 08/22/23

Project: BNA-1-03, F&BI 308324

**QUALITY ASSURANCE RESULTS
FOR THE ANALYSIS OF SOIL SAMPLES FOR
POLYCHLORINATED BIPHENYLS AS
AROCOR 1016/1260 BY EPA METHOD 8082A**

Laboratory Code: 308282-03 (Matrix Spike)

Analyte	Reporting Units	Spike Level	Sample Result (Wet Wt)	Percent Recovery MS	Percent Recovery MSD	Control Limits	RPD (Limit 20)
Aroclor 1016	mg/kg (ppm)	0.25	<0.02	55	76	50-150	32 vo
Aroclor 1260	mg/kg (ppm)	0.25	<0.02	44 vo	63	50-150	36 vo

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
Aroclor 1016	mg/kg (ppm)	0.25	89	70-130
Aroclor 1260	mg/kg (ppm)	0.25	97	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

YMW/1/E2/VS-01/01

Dr. #

TURNAROUND TIME

☐ Standard turnaround
☒ RUSH 5 Days
Rush charges authorized by: 10

SAMPI E DIEGO AT

SAMPLE DISPOSAL
☐ Archive samples
☐ Other _____

						ANALYSES REQUESTED							Notes
Sample ID	Lab ID	Date Sampled	Time Sampled	Sample Type	# of Jars	NWTPH-Dx	NWTPH-Gx	BTEX EPA 8021	NWTPH-HCID	VOCs EPA 8260	PAHs EPA 8270	PCBs EPA 8082	
DF-8 (4.0-6)	61 A-D	8/14/23	1230	SS	4	X							
DF-8 (12.0-14.0)	02	8/14/23	1235	SS	4	X							
DF-9 (3.0-4.0)	03	8/14/23	1400	SS	4	X							
DF-9 (14.0-16.0)	04	8/14/23	1406	SS	4	X							
DP-10 (4.0-6.0)	05	8/14/23	1505	SS	4	X							
DF-11 (2.0-3.0)	06	8/14/23	1555	SS	4	X							
DF-11 (12.0-13.0)	07 ✓	8/14/23	1600	SS	4	X					X		
Trip Blank	09 A-B			water	2								
1													
						Samples received at 4 °C							Added at lab (AP)

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
Relinquished by:	Adrian	SEC	8/24/23	08:00
Received by:	ADRIAN	SEC	08/24/23	09:03

Received by:

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D.
Yelena Aravkina, M.S.
Michael Erdahl, B.S.
Vineta Mills, M.S.
Eric Young, B.S.

5500 4th Avenue South
Seattle, WA 98108
(206) 285-8282
fbi@isomedia.com
www.friedmanandbruya.com

August 29, 2023

Andrew Blake, Project Manager
Succeed Environmental Consulting, LLC
1631 NE Broadway 211
Portland, OR 97232

Dear Mr Blake:

Included are the results from the testing of material submitted on August 22, 2023 from the BNA-1-03, F&BI 308330 project. There are 5 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SCD0829R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on August 22, 2023 by Friedman & Bruya, Inc. from the Succeed Environmental Consulting, LLC BNA-1-03, F&BI 308330 project. Samples were logged in under the laboratory ID's listed below.

Laboratory ID

308330 -01

Succeed Environmental Consulting, LLC

SV-01

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	SV-01	Client:	Succeed Environmental Consulting, LLC
Date Received:	08/22/23	Project:	BNA-1-03, F&BI 308330
Date Collected:	08/19/23	Lab ID:	308330-01
Date Analyzed:	08/22/23	Data File:	082220.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<250
Diesel Fuel Range	<2,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	Method Blank	Client:	Succeed Environmental Consulting, LLC
Date Received:	Not Applicable	Project:	BNA-1-03, F&BI 308330
Date Collected:	Not Applicable	Lab ID:	03-1948 mb
Date Analyzed:	08/22/23	Data File:	082209.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<250
Diesel Fuel Range	<2,000

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 08/29/23

Date Received: 08/22/23

Project: BNA-1-03, F&BI 308330

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-17**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
2-Propanol	ng/tube	250	106	70-130
Diesel Fuel Range	ng/tube	2,500	86	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported below the standard reporting limit. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

Report To Andrew Ryals

08/22/22

R

PROJECT NAME

PO #

Company SEC
Address 1531 NE B. Ave. #211

7

RYA-1-03

City, State, ZIP Portland OR 97213

REMARKS

INVOICE TO

Phone 971-371-0404 Email abdulcasim@al-awam.com

5

Page # 14

TURNAROUND TIME

Standard Turnaround
RUSH

Rush charges authorized by:

SAMPLE DISPOSAL

Dispose after 30 days

Archive Samples

[illegible]

Friedman & Bruya, Inc.

5500 4th Avenue South

Seattle, WA 98108

Ph. (206) 285-8282

Fax (206) 283-5044

FORMS\COC\COC.DOC

SIGNATURE

Relinquished by:

Received by _____

Relinquished by:

Received by:

PRINT NAME: _____

Andrew Bido

ANHPHARY

Received by:

COMPANY

38

F8A

DATE

8/21/23

08/12/12 09:03

TIME

五

09:03

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Elizabeth Webber-Bruya
Ann Webber-Bruya
Michael Erdahl
Vineta Mills
Eric Young

5500 4th Ave South
Seattle, WA 98108-2419
(206) 285-8282
office@friedmanandbruya.com
www.friedmanandbruya.com

May 7, 2025

Andrew Blake, Project Manager
Succeed Environmental Consulting, LLC
1631 NE Broadway 211
Portland, OR 97232

Dear Mr Blake:

Included are the results from the testing of material submitted on April 30, 2025 from the BNA-1, F&BI 504480 project. There are 7 pages included in this report.

We appreciate this opportunity to be of service to you and hope you will call if you have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.



Michael Erdahl
Project Manager

Enclosures
SCD0507R.DOC

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

CASE NARRATIVE

This case narrative encompasses samples received on April 30, 2025 by Friedman & Bruya, Inc. from the Succeed Environmental Consulting, LLC BNA-1, F&BI 504480 project. Samples were logged in under the laboratory ID's listed below.

<u>Laboratory ID</u>	<u>Succeed Environmental Consulting, LLC</u>
504480 -01	SV-02
504480 -02	SV-03
504480 -03	SV-04

All quality control requirements were acceptable.

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	SV-02	Client:	Succeed Environmental Consulting, LLC
Date Received:	04/30/25	Project:	BNA-1, F&BI 504480
Date Collected:	04/29/25	Lab ID:	504480-01 1/2
Date Analyzed:	05/05/25	Data File:	050509.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<500
Diesel Fuel Range	<3,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	SV-03	Client:	Succeed Environmental Consulting, LLC
Date Received:	04/30/25	Project:	BNA-1, F&BI 504480
Date Collected:	04/29/25	Lab ID:	504480-02 1/2
Date Analyzed:	05/05/25	Data File:	050510.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<500
Diesel Fuel Range	<3,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	SV-04	Client:	Succeed Environmental Consulting, LLC
Date Received:	04/30/25	Project:	BNA-1, F&BI 504480
Date Collected:	04/29/25	Lab ID:	504480-03 1/2
Date Analyzed:	05/05/25	Data File:	050511.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<500
Diesel Fuel Range	<3,200

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Analysis For Volatile Compounds By Method TO-17

Client Sample ID:	Method Blank	Client:	Succeed Environmental Consulting, LLC
Date Received:	Not Applicable	Project:	BNA-1, F&BI 504480
Date Collected:	Not Applicable	Lab ID:	05-1052 mb
Date Analyzed:	05/05/25	Data File:	050506.D
Matrix:	Air	Instrument:	GCMS10
Units:	ug/m3	Operator:	bat

	Concentration
Compounds:	ug/m3

2-Propanol	<250
Diesel Fuel Range	<1,600

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Date of Report: 05/07/25

Date Received: 04/30/25

Project: BNA-1, F&BI 504480

**QUALITY ASSURANCE RESULTS FOR THE ANALYSIS OF AIR SAMPLES
FOR VOLATILES BY METHOD TO-17**

Laboratory Code: Laboratory Control Sample

Analyte	Reporting Units	Spike Level	Percent Recovery LCS	Acceptance Criteria
2-Propanol	ng/tube	250	114	70-130
Diesel Fuel Range	ng/tube	2,500	110	70-130

FRIEDMAN & BRUYA, INC.

ENVIRONMENTAL CHEMISTS

Data Qualifiers & Definitions

a - The analyte was detected at a level less than five times the reporting limit. The RPD results may not provide reliable information on the variability of the analysis.

b - The analyte was spiked at a level that was less than five times that present in the sample. Matrix spike recoveries may not be meaningful.

ca - The calibration results for the analyte were outside of acceptance criteria, biased low; or, the calibration results for the analyte were outside of acceptance criteria, biased high, with a detection for the analyte in the sample. The value reported is an estimate.

c - The presence of the analyte may be due to carryover from previous sample injections.

cf - The sample was centrifuged prior to analysis.

d - The sample was diluted. Detection limits were raised and surrogate recoveries may not be meaningful.

dv - Insufficient sample volume was available to achieve normal reporting limits.

f - The sample was laboratory filtered prior to analysis.

fb - The analyte was detected in the method blank.

fc - The analyte is a common laboratory and field contaminant.

hr - The sample and duplicate were reextracted and reanalyzed. RPD results were still outside of control limits. Variability is attributed to sample inhomogeneity.

hs - Headspace was present in the container used for analysis.

ht - The analysis was performed outside the method or client-specified holding time requirement.

ip - Recovery fell outside of control limits due to sample matrix effects.

j - The analyte concentration is reported between the method detection limit and the lowest calibration point. The value reported is an estimate.

J - The internal standard associated with the analyte is out of control limits. The reported concentration is an estimate.

jl - The laboratory control sample(s) percent recovery and/or RPD were out of control limits. The reported concentration should be considered an estimate.

js - The surrogate associated with the analyte is out of control limits. The reported concentration should be considered an estimate.

k - The calibration results for the analyte were outside of acceptance criteria, biased high, and the analyte was not detected in the sample.

lc - The presence of the analyte is likely due to laboratory contamination.

L - The reported concentration was generated from a library search.

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

pc - The sample was received with incorrect preservation or in a container not approved by the method. The value reported should be considered an estimate.

ve - The analyte response exceeded the valid instrument calibration range. The value reported is an estimate.

vo - The value reported fell outside the control limits established for this analyte.

x - The sample chromatographic pattern does not resemble the fuel standard used for quantitation.

04/30/25 M1

Page # 100

X Standard Turnaround
RUSH _____

INVOICE TO

28

SAMPLE DISPOSAL
Dispose after 30 days
Archive Samples
Other _____

[illegible]

Fax (906) 982-5044

FORMS\COC\COC TO-17.DOC

SIGNATURE	PRINT NAME	COMPANY	DATE	TIME
	A. Bink	Syc	4/29/25	1:00 PM
	Arch Pharr	FBI	4/30/25	10:20
Received by:				
Relinquished by:				
Received by:				

SAMPLE CONDITION UPON RECEIPT CHECKLIST

PROJECT # 504480 CLIENT SEC INITIALS/ AP
DATE: 4/30/25

If custody seals are present on cooler, are they intact? ☒ NA ☐ YES ☐ NO

Cooler/Sample temperature 1 °C
Thermometer ID: Fluke 96312917

Were samples received on ice/cold packs? ☒ YES ☐ NO

How did samples arrive?
☐ Over the Counter ☐ Picked up by F&BI ☒ FedEx/UPS/GSO

Is there a Chain-of-Custody* (COC)? ☒ YES ☐ NO Initials/ AP
*or other representative documents, letters, and/or shipping memos Date: 4/30/25

Number of days samples have been sitting prior to receipt at laboratory 1 days

Are the samples clearly identified? (explain "no" answer below) ☒ YES ☐ NO

Were all sample containers received intact (i.e. not broken, leaking etc.)? (explain "no" answer below) ☒ YES ☐ NO

Were appropriate sample containers used? ☒ YES ☐ NO ☐ Unknown

If custody seals are present on samples, are they intact? ☒ NA ☐ YES ☐ NO

Are samples requiring no headspace, headspace free? ☒ NA ☐ YES ☐ NO

Is the following information provided on the COC, and does it match the sample label?
(explain "no" answer below)

Sample ID's	☒ Yes ☐ No	☐ Not on COC/label
Date Sampled	☒ Yes ☐ No	☐ Not on COC/label
Time Sampled	☒ Yes ☐ No	☐ Not on COC/label
# of Containers	☒ Yes ☐ No	
Relinquished	☒ Yes ☐ No	
Requested analysis	☒ Yes ☐ On Hold	

Other comments (use a separate page if needed)

Air Samples: Were any additional canisters/tubes received? ☐ NA ☐ YES ☒ NO

Number of unused TO15 canisters** Number of unused TO17 tubes

**Fill out Green manifolds billing sheet

Polymer Letters

APPENDIX B

CHEMICAL ANALYTICAL PROGRAM

GENERAL

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.



COMMON ACRONYMS AND ABBREVIATIONS

ACM	asbestos-containing material
AST	aboveground storage tank
ASTM	American Society for Testing and Materials
BGS	below ground surface
BS/BSD	blank spike/blank spike duplicate
BTEX	benzene, toluene, ethylbenzene, xylenes
CERCLA	Comprehensive Environmental Response, Compensation and Liability Act
CFR	Code of Federal Regulations
CFSL	Clean Fill Screening Level
DEQ	Oregon Department of Environmental Quality
Ecology	Washington Department of Ecology
ECSI	Environmental Cleanup Site Information
EPA	U.S. Environmental Protection Agency
ESA	Environmental Site Assessment
GC/MS	gas chromatography/mass spectrometer
HBMS	hazardous building materials survey
HDPE	high density polyethylene
HOT	Heating Oil Tank
HVOC	halogenated volatile organic compound
IDW	investigation-derived waste
kg	kilogram
LBP	lead-based paint
LUST	Leaking Underground Storage Tank
mg/kg	milligrams per kilogram
mg/L	milligrams per liter
MS	matrix spike
ODOT	Oregon Department of Transportation
ORS	Oregon Revised Statute
PAHs	polynuclear aromatic hydrocarbons
PCB	polychlorinated biphenyl
PID	photoionization detector
PPA	Prospective Purchaser Agreement
ppm	parts per million
QC	quality control
RBC	DEQ Risk-Based Concentrations
RCRA	Resource Conservation and Recovery Act
RDL	reported detection limit
ROW	right-of-way
SEC	Succeed Environmental Consulting LLC
USGS	U.S. Geological Survey
UST	underground storage tank
VCP	Voluntary Cleanup Program
VOCs	volatile organic compounds

