Phase II Environmental Site Assessment Report

Foothill Road
Medford, Oregon 97504
Approximately 6.37-Acre Portion of
Map 371W09 and Taxlot 900

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ALPINE ENVIRONMENTAL CONSULTANTS, LLC

EXECUTIVE SUMMARY

On behalf of Medford Water, Rabe Consulting retained Alpine Environmental Consultants, LLC (AEC) to conduct a Phase II Environmental Site Assessment (ESA) at the property identified as an approximately 6.37-acre portion of Map 371W09 and TL 900 located on Foothill Road in Medford, Oregon (the Subject Property). This Phase II ESA work involved a soil investigation.

AEC completed a Phase I ESA for the Subject Property and this report is dated February 27, 2025. The historical aerial photographs reviewed as part of the Phase I ESA revealed that orchards had been present at the Subject Property from at least the late 1930s through approximately 2010. Based on the results of the Phase I ESA and AEC's extensive work in both Oregon and Washington on properties currently or formerly used as orchards, the historical orchard use and the potential impacts from pesticides use constituted a Recognized Environmental Condition (REC) for the Subject Property. Therefore, AEC recommended a Phase II ESA be conducted to determine if the soil at the Subject Property was adversely impacted by orchard pesticide use and to determine if this potential REC remains a REC or could be eliminated from further consideration.

The Phase II ESA field work was conducted on April 10, 2025. The Subsurface investigation included the excavation of 10 test pits throughout the Subject Property. Five depth-discrete soil samples were obtained from each test pit from depths of 0.0 to 0.5 feet below ground surface (bgs), 0.5 to 1.0 feet bgs, 1.0 to 1.5 feet bgs, 1.5 to 2.0 feet bgs, and 2.0 to 3.0 feet bgs. The discrete samples from all test pits from the same depth interval were homogenized into five depth discrete composite samples. These were labeled as COMP-0.0-0.5 (subsamples from 0.0 to 0.5 feet bgs), COMP-0.5-1.0 (subsamples from 0.5 to 1.0 feet bgs), COMP-1.0-1.5 (subsamples from 1.0 to 1.5 feet bgs), COMP-1.5-2.0 (subsamples from 1.5 to 2.0 feet bgs), and COMP-2.0-3.0 (subsamples from 2.0 to 3.0 feet bgs).

The soil samples were submitted for relevant laboratory analyses to determine if the subsurface at the Subject Property has been impacted at constituent concentrations exceeding relevant generic risk-based concentrations (RBCs) developed by the Oregon Department of Environmental Quality (DEQ). The generic RBCs applicable to the Subject Property are consistent with the planned commercial land use and assume occupational receptors, construction workers, and excavation workers will be present at the Subject Property. The reported concentrations of metals in soil were also compared to the naturally occurring background concentrations developed for the Cascade Mountains region of Oregon, which includes the eastern part of the Medford area and the Subject Property. All reported concentrations were also compared to the Clean Fill Values listed in DEQ's *Clean Fill Determinations* Internal Management Directive dated February 21, 2019 (DEQ, 2019). Note that the Clean Fill Values for metals coincides with the naturally occurring background concentrations.

The Phase II ESA analytical data reported several constituents in soil samples at concentrations above the laboratory method reporting limits (MRLs). Overall, the analytical results reported in general a higher concentration of metals and pesticides constituents in the upper 0.5 feet of soil than in the underlying layer from 0.5 to 3.0 feet bgs. These data demonstrate concentrations of pesticides constituents attenuate fairly rapidly with depth.

All five of the soil samples were composited by the analytical laboratory using methods consistent with Incremental Sampling Methodology (ISM). All five of the composite soil samples were submitted for laboratory analyses of the following constituents: total metals (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, mercury, molybdenum, selenium, silver, thallium, vanadium, and zinc); organochlorine pesticides; organophosphorus pesticides; and chlorinated herbicides.

The analytical results reported several metals and organochlorine pesticides at concentrations above the laboratory MRLs and/or Clean Fill Values. These exceedances included the following:

- The concentrations of arsenic reported in all five composite soil samples exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for occupational receptors.
- The concentrations of arsenic reported in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0 exceeded the naturally occurring background concentration in the Cascade Mountains region.
- The concentrations of arsenic reported in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0 exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers.
- The concentrations of lead reported in composite soil samples COMP-0.0-0.5, COMP-0.5-1.0, and COMP-1.5-2.0 exceeded the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors.
- The concentrations of lead reported in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0 exceeded the naturally occurring background concentration.
- The concentration of dieldrin reported in composite soil sample COMP-0.0-0.5 at a concentration above the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors.
- The concentrations of arsenic, lead, 4,4'-dichlorodiphenyldichloroethene (4,4'-DDE), 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT), and dieldrin reported in several samples at various depths down to 3 feet bgs exceeded DEQ's Clean Fill Values.

While generic RBCs for occupational receptors and construction workers were exceeded for the aforementioned constituents and exposure pathways, potential risks to human health associated with these constituents and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

1. The generic occupational RBC under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes occupational receptors are likely to come into contact with

contaminated soils found in the upper 3 feet of soil. The concentrations of arsenic reported in the composite soil samples collected from depths of 0.0 to 3.0 feet bgs exceeded this RBC. However, arsenic exceeded the naturally occurring background concentration only in the composite soil samples collected from 0.0 to 1.0 feet bgs. Prior to property development, if the upper 1.0 feet of soil is not excavated and properly disposed of off of the Subject Property during development, AEC recommends institutional and/or engineering controls be implemented throughout the Subject Property. Institutional and/or engineering control options to protect occupational receptors include but are not limited to the following: removal of shallow soil (at least from 0.0 to 1.0 feet bgs); paving; covering the property with a 3-foot layer of clean compacted fill material; additional investigations to delineate arsenic concentrations in shallow soil; developing an asphalt cap maintenance plan; developing a Contaminated Media Management Plan (CMMP) with or without DEQ approval; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained). Another option for consideration is preparation of a Site-specific human health risk assessment to account for the relatively minimal amount of time future workers will be present at the Subject Property.

2. The generic construction workers RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of impacted-soils. However, it is unlikely construction workers would be working at the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring they wear appropriate Personal Protective Equipment (PPE) and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP with or without DEQ approval.

3. The generic occupational RBC for lead and dieldrin under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property or proximal to it, and that these constituents could be leached from the shallow soil, impact groundwater, and that occupational receptors could subsequently be exposed to these constituents in drinking water. The Subject Property is currently undeveloped vacant land with no current water use. When developed, the Subject Property will be serviced with municipal water by the Medford Water. The neighboring properties are either undeveloped land with no water use or have commercial/industrial use and utilize private well water and/or municipal water and will likely continue to utilize private well water and/or municipal water in the future. A review of the WRD well records indicates the Subject Property has no water supply wells. Based on the general topography in the vicinity of the Subject Property, it is expected that groundwater at the Subject Property flows to the west-northwest towards the unnamed creek (tributary of Upton Slough) that flows through the northern and northwestern portion of TL 900. Given the current groundwater use status at the Subject Property (i.e. the absence of wells, no current water use, and the future planned municipal water use), it is highly unlikely potentially leached lead and dieldrin from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to occupational receptors at the Subject Property. To completely eliminate the potential risk that leaching of these constituents to

groundwater might pose to occupational receptors at the Subject Property, a groundwater investigation could be conducted and/or a deed notice could be developed and applied that prohibits the installation of wells to supply water to occupational receptors at the Subject Property. It should also be noted the concentrations of lead and dieldrin attenuate to concentrations below their respective generic RBCs for the *leaching to groundwater exposure pathway* for occupational receptors (and naturally occurring background concentrations for lead) at depths below 1.0 feet bgs and 0.5 feet bgs, respectively. These data indicate that if the upper 1.0 foot of soil is removed during development to meet geotechnical requirements, this potential risk is eliminated.

4. The Clean Fill Values were exceeded by several constituents in the composite samples collected throughout the Subject Property at a depth ranging from 0.0 to 3.0 feet bgs. These constituents included arsenic, lead, 4,4'-DDE, 4,4'-DDT, and dieldrin. If soil from 1.0 to 3.0 feet bgs is excavated throughout the Subject Property, it can be reused on the Subject Property as unrestricted fill. However, if this soil is exported off of the Subject Property, it should be managed appropriately to ensure it does not adversely impact ecological receptors. For example, this soil could be properly disposed of at a quarry under a DEQ-approved Solid Waste Letter of Authorization (SWLA). It should be noted the soil at a depth of 0.0 to 1.0 feet bgs should be addressed as described under bullet #1 to address potential arsenic risks for occupational receptors under the *soil ingestion, dermal contact, and inhalation exposure pathway*.

Based on the available data, AEC concluded that the historical orchard practices at the Subject Property involving pesticides have adversely impacted the surficial soil and are considered a REC. The available data reflect the adverse impacts are in the soil within the investigated interval of 0.0 to 3.0 feet bgs.

Based on these findings and accounting for the inherent uncertainties associated with any subsurface investigation, AEC recommends the following:

- Consider entering DEQ's Voluntary Cleanup Pathway (VCP) to obtain an NFA determination, which will concurrently ensure future occupants are not exposed to unacceptable risks associated with residual pesticides contamination and provide liability protection.
- Consider investigating the groundwater and/or developing and applying a deed notice that prohibits the installation of wells to supply water to occupational receptors at the Subject Property.
- During development activities, appropriately manage potential risks associated with residual pesticides concentrations in shallow soil that are above generic RBCs (e.g. arsenic) and/or Clean Fill values in the upper 3.0 feet of soil of the Subject Property. If this soil is to be excavated during development and moved off of the Subject Property, the soil should be disposed of consistent with DEQ regulations, examples being disposal under a DEQ-approved SWLA or disposal at an approved landfill (e.g. Dry Creek Landfill).

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LIST OF ACRONYMS AND ABBREVIATIONS

AEC	Alpine Environmental Consultants, LLC
bgs	below ground surface
CMMP	Contaminated Media Management Plan
4,4'-DDE	4,4'-Dichlorodiphenyldichloroethene
4,4'-DDT	4,4'-Dichlorodiphenyltrichloroethane
DEQ	Department of Environmental Quality
ESA	Environmental Site Assessment
ISM	Incremental Sampling Methodology
ITRC	Interstate Technology Regulatory Council
mg/kg	milligrams per kilogram
MRL	method reporting limit
NFA	no further action
PPE	personal protective equipment
ppm	parts per million
RBC	risk-based concentrations
REC	recognized environmental condition
SWLA	Solid Waste Letter of Authorization
TL	tax lot
USEPA	United States Environmental Protection Agency
VCP	Voluntary Cleanup Pathway
WRD	Water Resources Department

1 INTRODUCTION

On behalf of Medford Water, Rabe Consulting retained Alpine Environmental Consultants, LLC (AEC) to prepare this report presenting the findings of the Phase II Environmental Site Assessment (ESA) conducted at the property identified as an approximately 6.37-acre portion of Map 371W09 and tax lot (TL) 900 located in Medford, Oregon (the Subject Property). The Phase II ESA involved a soil investigation.

1.1 Subject Property Description

The Subject Property is located on the southeast portion of TL 900 located in Township 37 South, Range 1 West, Section 9 (Map 371W09). The Subject Property occupies approximately 6.37 acres and consists of undeveloped grassy land. The location of the Subject Property is shown on **Figure 1** and **Figure 2**.

The topography of the Subject Property and the neighboring properties has a slight gradient towards the north and west. An unnamed creek, a tributary of Upton Slough, flows through the northern and northwestern portions of TL 900 in an approximately westerly direction. Based on the general topography in the vicinity of the Subject Property, it is assumed that groundwater at the Subject Property flows to the west-northwest towards this unnamed creek.

The Subject Property is located outside of the City of Medford city limits, outside the Urban Growth Boundaries, and within the Urban Reserve Boundaries. According to the Jackson County zoning map, the Subject Property is located in an exclusive farm use (EFU) zoning area. According to the Jackson County and City of Medford zoning maps, the neighboring properties are located in EFU and rural residential zoning districts.

1.2 Subject Property Background

AEC has completed a Phase I ESA for the Subject Property. The Phase I ESA Report is dated February 27, 2025. According to the historical aerial photographs, the Subject Property had been historically occupied by orchards from at least the late 1930s through approximately 2010. The Phase I ESA concluded that the potential impacts from pesticides to shallow soil associated with historical orchard use constitute a Recognized Environmental Condition (REC). Given the identified REC, AEC recommended a Phase II ESA be conducted at the Subject Property to determine if soil at the Subject Property had been adversely impacted.

1.3 Objectives

The objectives of this Phase II ESA were the following:

- To collect a technically appropriate dataset representative of current conditions to determine if residual contamination in shallow soil at the Subject Property associated

with historical uses could generate unacceptable risks to human receptors (i.e. occupational receptors in future structures) at the Subject Property or if these concerns could be eliminated from further consideration.

- To collect a technically appropriate dataset representative of current conditions that can be used to segregate pesticides-impacted soil that meets DEQ's Clean Fill Values (i.e. unrestricted use) versus soil that does not meet DEQ's Clean Fill Values. Should soil that does not meet DEQ's Clean Fill Values be identified, the available dataset should be useful in obtaining a Solid Waste Letter of Authorization (SWLA) from DEQ to more cost-effectively dispose of the soil at a quarry.
- Should the dataset suggest one or more constituents in various media pose potential risks to human receptors, the data collected during the Phase II can be used to better constrain uncertainties associated with adverse environmental impacts on future development plans.
- If warranted, the data collected during the Phase II might be valuable in developing remedial actions and/or obtaining a No Further Action (NFA) letter from DEQ through the Voluntary Cleanup Pathway (VCP).

The Phase II ESA included a soil investigation. The Phase II ESA investigation process is presented in **Section 2**, data evaluation is presented in **Section 3**, and conclusions and recommendations are presented in **Section 4**.

2 PHASE II ESA INVESTIGATION

The Phase II ESA included a subsurface investigation, specifically soil sampling. The subsurface investigation was conducted on April 10, 2025, and a summary of the field methods and observations is presented in **Section 2.1** and **Section 2.2**. The analytical results of the soil samples and their interpretation are included in **Section 3**. Conclusions and recommendations are presented in **Section 4**. The photographic documentation is included in **Appendix 1**. The complete laboratory results are included in **Appendix 2**. The location of the Subject Property is shown on **Figure 1** and the sampling locations are shown on **Figure 2**. The analytical results of the soil samples are summarized in **Table 1** through **Table 4**.

2.1 Pre-Excavation

AEC contacted the Utility Notification Center in order to locate and trace any potential public underground utilities prior to completing any subsurface investigation activities.

2.2 Soil Investigations

2.2.1 Test Pit Excavation and Soil Sampling

AEC supervised the excavation of 10 test pits on the Subject Property. The 10 test pit locations are illustrated on **Figure 2** and the photographic documentation is included in **Appendix 1**. The test pits were excavated using a small excavator owned and operated by Three Dimensional Contracting, LLC of Merlin, Oregon. Soil samples and lithologic characterization, were logged by Mr. Toby Shallcross (Project Geologist) and checked by Mr. Jonathan Williams (Oregon Registered Geologist) of AEC.

The sampling objective at each test pit was to collect five depth discrete soil subsamples representing the uppermost 0.0 to 3.0 feet of native soil. No non-native fill was observed in any of the test pits. Therefore, the 10 test pits were excavated to a depth of approximately 3.0 feet below ground surface (bgs). The five discrete soil subsamples were collected from the following depths at each of the 10 test pits:

- 0.0 to 0.5 feet bgs;
- 0.5 to 1.0 feet bgs;
- 1.0 to 1.5 feet bgs;
- 1.5 to 2.0 feet bgs; and
- 2.0 to 3.0 feet bgs.

The soil subsamples from all test pits from the same depth interval were homogenized into five depth discrete composite soil samples. These were labeled as follows:

- COMP-0.0-0.5: composed of the subsamples collected from test pits TP1 through TP10 from 0.0 to 0.5 feet bgs

- COMP-0.5-1.0: composed of the subsamples collected from test pits TP1 through TP10 from 0.5 to 1.0 feet bgs;
- COMP3-1.0-1.5: composed of the subsamples collected from test pits TP1 through TP10 from 1.0 to 1.5 feet bgs;
- COMP4-1.5-2.0: composed of the subsamples collected from test pits TP1 through TP10 from 1.5 to 2.0 feet bgs; and
- COMP-2.0-3.0: composed of the subsamples collected from test pits TP1 through TP10 from 2.0 to 3.0 feet bgs.

The lithology identified in the 10 test pits consisted of medium to dark brown clayey soil to approximately 3 feet bgs. No groundwater was encountered in the test pits.

The rationale for collecting five soil subsamples at each test pit location was that depth discrete analytical results should help characterize the vertical extent and attenuation with depth of potential impacts by pesticide constituents. The concept of depth discrete samples is also documented in DEQ's *Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production* of 2006 that was updated in June 2019 (DEQ, June 2019).

After the 10 test pits had been excavated, AEC personnel collected five depth discrete soil samples over the desired depth intervals from each test pit using clean stainless-steel trowels and plastic bags. Before and between the excavation of each test pit, the small excavator bucket was swept clean with a broom and rinsed with deionized water. The stainless-steel trowels were also cleansed prior to each use by scrubbing with a brush and an Alconox solution and rinsed with de-ionized water.

Soil samples representative of the native soil from five depth intervals were collected at each test pit by scraping an equal and representative volume of soil off of the test pit walls over the desired depth intervals to fill plastic labeled Ziploc bags. The soil in the plastic Ziploc bags was then thoroughly homogenized using hands with clean nitrile gloves to develop representative depth discrete soil subsamples. Larger sized material (i.e., gravel greater than approximately ¼ to ½ inch in diameter) was removed by hand. Accordingly, a total of 50 depth discrete soil subsamples were collected (i.e. five samples from each of the 10 test pits). After soil sample collection was completed, the test pits were backfilled and compacted using the small excavator as described above.

Once all the soil subsamples were collected, five composite samples were created placing an equal volume of soil from the subsamples collected from the same depth interval into glass sample containers provided by the laboratory. Preparation of the composite samples was completed by the analytical laboratory using methods consistent with the Incremental Sampling Methodology (ISM) developed by the Interstate Technology Regulatory Council (ITRC).

2.2.2 Soil Laboratory Analyses

The composite soil samples were placed in an iced cooler and submitted to Apex Laboratories, LLC (Apex) of Tigard, Oregon, under standard chain-of-custody protocol. The temperature of the cooler recorded by the laboratory upon receipt was 4.9 °C, which is within the U.S. Environmental Protection Agency's (USEPA's) recommended limit (which is specifically less than or equal to 6°C and above the freezing point). After completing compositing of the soil samples using ISM, all five of the composite soil samples were analyzed for the following constituents:

- Total metals by USEPA Method 6020B with inductively coupled plasma mass spectrometry (ICP-MS) (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, mercury, molybdenum, selenium, silver, thallium, vanadium, and zinc).
- Organochlorine pesticides by USEPA Method 8081B;
- Organophosphorus pesticides by USEPA Method 8270E; and
- Chlorinated herbicides by USEPA Method 8321B (note that Apex subcontracted this analysis to Eurofins Denver of Arvada, Colorado).

This list of constituents is consistent with the constituents identified in DEQ's *Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production* of 2006 that was updated in June 2019 (DEQ, June 2019).

Copies of the final analytical laboratory reports for the Subject Property analytical soil results are included in **Appendix 2**. The analytical results for soil samples are summarized in **Table 1** through **Table 4.** The metals results are summarized in **Table 1**, the organochlorine pesticides in **Table 2**, the organophosphorus pesticides in **Table 3**, and the chlorinated herbicides in **Table 4**. In addition to presenting the analytical results, **Table 1** through **Table 4** also identify relevant generic risk-based concentrations (RBCs) for soil developed by DEQ. The generic RBCs identified in these tables are consistent with the anticipated future land use and zoning and assume occupational receptors and construction and excavation workers will be present on the Subject Property. The generic RBCs are described in DEQ's updated *Risk-Based Decision Making for the Remediation of Contaminated Sites* guidance dated October, 2, 2017 (DEQ, 2017).

3 DATA EVALUATION

The soil samples analytical results are included in **Appendix 2** and summarized in **Table 1** through **Table 4.** The analytical results reported several constituents at concentrations that exceed the laboratory method reporting limits (MRLs) in several soil samples. These constituents were further compared to relevant generic RBCs, including the following receptors and exposure pathways: the occupational receptors, construction workers, and excavation workers *ingestion, dermal contact, and inhalation exposure pathway*; the occupational receptors *volatilization to outdoor air exposure pathway*; the occupational receptors *vapor intrusion into buildings exposure pathway*; and the occupational receptors *leaching to groundwater exposure pathway*.

The reported concentrations of total metals were also compared to the naturally occurring background concentrations developed for the Cascade Mountains region, which includes the eastern Medford area and the Subject Property. The background concentrations are derived from DEQ's Technical Report entitled Development of Oregon Background Metals Concentrations in Soil (DEQ, 2013). The background concentrations are a type of average defined as the 95 percent upper predictive limits.

The reported concentrations of constituents were also compared to the Clean Fill Values listed in the DEQ's Clean Fill Determinations Internal Management Directive dated February 21, 2019 (DEQ, February 2019). Note that the Clean Fill Values for metals equal the naturally occurring background concentrations.

The reported data are summarized in the following paragraphs.

3.1 Total Metals

The analytical results of composite soil samples COMP1 through COMP5 reported several of the 17 metals at concentrations above the laboratory MRLs. Only arsenic and lead were reported at concentrations above the relevant generic RBCs. The generic RBCs exceedances were as follows:

- Arsenic was reported in all five composite soil samples (collected from 0.0 to 3.0 feet bgs) at concentrations ranging from 8.25 milligrams per kilogram (mg/kg) to 56.0 mg/kg, which exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for occupational receptors of 1.9 mg/kg. However, the concentrations of arsenic only exceeded the naturally occurring background concentration in composite soil samples collected from 0.0 to 1.0 feet bgs.

  While arsenic concentrations exceeded the RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for occupational receptors and the naturally occurring background concentration in the upper 1.0 foot of soil, potential risks to human health associated with this constituent and exposure pathway can be managed, mitigated, and/or eliminated from further concern. The generic occupational RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes occupational receptors are likely to come

into contact with contaminated soils found in the upper 3 feet of soil. Prior to property development, AEC recommends institutional and/or engineering controls be implemented throughout the Subject Property. Institutional and/or engineering control options to protect occupational receptors include but are not limited to the following: removal of shallow soil (from at least 0.0 to 1.0 feet bgs); paving; covering the property with a 3-foot layer of clean compacted fill material; developing an asphalt cap maintenance plan; developing a Contaminated Media Management Plan (CMMP) with or without DEQ approval; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained).

- The reported concentrations of arsenic in composite soil samples COMP-0.0-0.5 (56.0 mg/kg) and COMP-0.5-1.0 (25.8 mg/kg) exceeded the RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers of 15 mg/kg.

  While arsenic concentrations exceeded the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers, potential risks to human health associated with this constituent and exposure pathway can be managed, mitigated, and/or eliminated from further concern. The generic construction workers RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of impacted-soils. However, it is unlikely construction workers would be working at the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring they wear appropriate personal protective equipment (PPE) and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP prepared with or without DEQ approval.

- The concentrations of arsenic reported in composite soil samples collected from 0.0 to 1.0 feet bgs (COMP-0.0-0.5 and COMP-0.5-1.0) exceeded the naturally occurring background concentration in the Cascade Mountains region (which includes the Medford area and the Subject Property) of 19 mg/kg. See Section 3.5 for more details.

- The concentrations of lead reported in composite soil samples COMP-0.0-0.5 (246 mg/kg), COMP-0.5-1.0 (98.4 mg/kg), and COMP-1.5-2.0 (31.9 mg/kg) exceeded the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors of 30 mg/kg. However, the reported lead concentration in composite sample COMP-1.5-2.0 was below the naturally occurring background concentration for lead of 34 mg/kg for the Cascade Mountains region.

  While reported lead concentrations exceeded the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors, potential risks to human health associated with this constituent and exposure pathway can be

managed, mitigated, and/or eliminated from further concern. The generic occupational RBC for total lead under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property or proximal to the Subject Property, and that lead could be leached from the shallow soil, impact groundwater, and that occupational receptors could subsequently be exposed to lead in drinking water. The Subject Property is currently undeveloped vacant land with no current water use. When developed, the Subject Property will be serviced with municipal water by the Medford Water. The neighboring properties are either undeveloped land with no water use or have commercial/industrial use and utilize private well water and/or municipal water and will likely continue to utilize private well water and/or municipal water in the future. A review of the WRD well records indicates the Subject Property has no water supply wells. The inferred groundwater flow direction in the area is to the west-northwest towards an unnamed creek (tributary of Upton Slough) that flows through the northern and northwestern portion of TL 900 in an approximately westerly direction. Given the current groundwater use status at the Subject Property (i.e. the absence of wells, no current water use, and the future planned municipal water use), it is highly unlikely potentially leached lead from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to occupational receptors at the Subject Property. To completely eliminate the potential risk that leaching of these constituents to groundwater might pose to occupational receptors at the Subject Property, a groundwater investigation could be conducted and/or a deed notice could be developed and applied that prohibits the installation of wells to supply water to occupational receptors at the Subject Property. It should also be noted the concentrations of lead attenuate to concentrations below the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors and the naturally occurring background concentration at a depth of 1.0 feet bgs. These data indicate that if the upper 1.0 feet of soil are removed during development to meet geotechnical requirements, this potential risk is eliminated.

- The concentrations of lead reported in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0 exceeded the naturally occurring background concentration in the Cascade Range region (which includes the Medford area and the Subject Property) of 34 mg/kg, so this soil does not qualify as Clean Fill. See Section 3.5 for more details.

3.2 **Organochlorine Pesticides**

The analytical results of composite soil samples reported several organochlorine pesticides at concentrations above the laboratory MRLs. These organochlorine pesticide included 4,4'-dichlorodiphenyldichloroethene [4,4'-DDE), 4,4'-dichlorodiphenyltrichloroethane (4,4'-DDT), and dieldrin.

- The concentration of dieldrin reported in composite soil sample COMP-0.0-0.5 (0.0313 mg/kg) exceeded the generic RBC for *leaching to groundwater exposure pathway* for occupational receptors of 0.030 mg/kg. While this dieldrin

concentration exceeded the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors, potential risks to human health associated with this constituent and exposure pathway can be managed, mitigated, and/or eliminated from further concern. As mentioned in Section 3.1 regarding lead, given the current groundwater use status at the Subject Property (the absence of wells, no current water use, and the future planned municipal water use), it is highly unlikely potentially leached dieldrin from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to occupational receptors at the Subject Property. To completely eliminate the potential risk that leaching of this constituent to groundwater might pose to occupational receptors at the Subject Property, groundwater investigations could be conducted and/or a deed notice could be developed and applied that prohibits the installation of wells to supply water to occupational receptors at the Subject Property. It should also be noted the concentrations of dieldrin attenuate to concentrations below the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors at depths below 0.5 feet bgs. These data indicate that if the upper 0.5 feet of soil is removed during development to meet geotechnical requirements, this potential risk is eliminated.

- The concentrations of 4,4'-DDE, 4,4'-DDT, and/or dieldrin exceeded the Clean Fill Values in all five composite soil samples representing soil from 0.0 to 3.0 feet bgs. See Section 3.5 for more details.

The organochlorine pesticides MRLs were below the generic applicable RBCs, with one exception. The MRL for heptachlor expoxide in the composite soil sample collected from 0.0 to 0.5 feet bgs exceeded one of the generic RBCs. The organochlorine pesticides results are summarized in **Table 2**.

3.3 Organophosphorus Pesticides

The analytical results of the composite soil samples reported no organophosphorus pesticides at concentrations above the laboratory MRLs in any analyzed composite soil sample. There are no established RBCs for organophosphorus pesticides. The organophosphorus pesticides MRLs were below the Clean Fill Values, with the exception of the MRL for dichlorvos. The organophosphorus pesticides results are summarized in **Table 3**.

3.4 Chlorinated Herbicides

The analytical of the composite soil samples reported no chlorinated herbicides at concentrations above the laboratory MRLs in the composite soil samples analyzed. The organochlorine pesticides MRLs were below the generic applicable RBCs. The chlorinated herbicides results are summarized in **Table 4.**

3.5 Clean Fill Determination

Based on the analytical results of the composite soil samples collected throughout the Subject Property, which are presented in **Table 1** through **Table 4**, the soil at the Subject Property within

at least the upper 3.0 feet does not qualify as Clean Fill. The constituents reported at concentrations above the Clean Fill Values include the following:

- Arsenic - from 0.0 to 1.0 feet bgs;
- Lead - from 0.0 to 1.0 feet bgs;
- 4,4'-DDE - from 0.0 to 3.0 feet bgs;
- 4,4'-DDT - from 0.0 to 1.0 feet bgs; and
- Dieldrin - from 0.0 to 1.0 feet bgs.

Soil within the 0.0 to 3.0 feet bgs at the Subject Property should not be exported off of the Subject Property unless it is managed appropriately (e.g. under a DEQ-approved SWLA). However, the soil from 1.0 to 3.0 feet bgs can be reused on the Subject Property as fill. It should be noted that per the *Clean Fill Determinations* Internal Management Directive (DEQ, 2019), any soil with petroleum-like staining or a petroleum-like odor does not qualify as Clean Fill and should not be exported from the Subject Property unless it is properly handled (e.g. under a DEQ-approved SWLA).

Note that the soil at a depth of 0.0 to 1.0 feet bgs should be addressed as described in **Section 3.1** to properly manage potential risks associated with arsenic to occupational and construction worker receptors under the *soil ingestion, dermal contact, and inhalation exposure pathway*.

If soil at a depth below 3.0 feet bgs is excavated at the Subject Property, it should be assumed it exceeds the Clean Fill Values for the organochlorine pesticides mentioned above or it should be investigated for organochlorine pesticides.

4 CONCLUSIONS AND RECOMMENDATIONS

The Phase II ESA investigation conducted at the Subject Property included the excavation of 10 test pits (identified as TP1 through TP10), the collection of subsamples from each test pit from five depth discrete intervals (0.0 to 0.5 feet bgs, 0.5 to 1.0 feet bgs, 1.0 to 1.5 feet bgs, 1.5 to 2.0 feet bgs, 2.0 to 3.0 feet bgs), the preparation of five depth discrete composite soil samples (identified as COMP-0.0-0.5, COMP-0.5-1.0, COMP-1.0-1.5, COMP-1.5-2.0, and COMP-2.0-3.0), and the laboratory analyses of all composite soil samples for the following constituents:

- Seventeen metals by USEPA Method 6020B (antimony, arsenic, barium, beryllium, cadmium, chromium, cobalt, copper, lead, nickel, mercury, molybdenum, selenium, silver, thallium, vanadium, and zinc);
- Organochlorine pesticides by USEPA Method 8081B;
- Organophosphorus pesticides by USEPA METHOD 8270E; and
- Chlorinated herbicides by USEPA Method 8321B.

The Phase II ESA analytical data reported several constituents in soil samples at concentrations above laboratory MRLs. Overall, the analytical results reported in general a higher concentration of pesticides constituents in the upper 0.5-feet of soil than in the underlying layer from 0.5 to 3.0 feet bgs. These data demonstrate concentrations of pesticides constituents attenuate fairly rapidly with depth.

The laboratory analyses of the composite soil samples collected throughout the Subject Property reported several constituents at concentrations above the laboratory MRLs. These included several metals and organochlorine pesticides. The concentrations of arsenic, lead, 4,4'-DDE, 4,4'-DDT, and dieldrin exceeded DEQ's Clean Fill Values. Only arsenic, lead, and dieldrin exceeded the relevant generic RBCs. The reported exceedances were as follows:

- Arsenic was reported in all five composite soil samples at concentrations above the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for occupational receptors. However, the concentration of arsenic only exceeded the naturally occurring background concentration (which coincides with Clean Fill Value) in the Cascade Mountain region (which includes the eastern part of the Medford area and the Subject Property) in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0.
- Arsenic was reported in composite soil samples COMP-0.0-0.5 and COMP-0.5-1.0 at concentrations above the generic RBC for the *ingestion, dermal contact, and inhalation exposure pathway* for construction workers.
- Lead was reported in composite soil samples COMP-0.0-0.5, COMP-0.5-1.0, and COMP-1.0-1.5 at concentrations above the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors.
- The concentration of lead in samples COMP-0.0-0.5 and COMP-0.5-1.0 also exceeded the naturally occurring background concentration (which coincides with the Clean Fill Value).

- Dieldrin was reported in composite soil sample COMP-0.0-0.5 at a concentration above the generic RBC for the *leaching to groundwater exposure pathway* for occupational receptors.
- The concentrations of arsenic, lead, 4,4'-DDE, 4,4'-DDT, and dieldrin exceeded DEQ's Clean Fill Values at various depths down to 3 feet bgs.

While generic RBCs for occupational receptors and construction workers were exceeded for the aforementioned constituents and exposure pathways, potential risks to human health associated with these constituents and exposure pathways can be managed, mitigated, and/or eliminated from further concern, as follows:

1. The generic occupational RBC under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes occupational receptors are likely to come into contact with contaminated soils found in the upper 3 feet of soil. The concentrations of arsenic reported in the composite soil samples collected from depths of 0.0 to 3.0 feet bgs exceeded this RBC. However, arsenic exceeded the naturally occurring background concentration only in the composite soil samples collected from 0.0 to 1.0 feet bgs. Prior to property development, if the upper 1.0 feet of soil is not excavated and properly disposed of off of the Subject Property during development, AEC recommends institutional and/or engineering controls be implemented throughout the Subject Property. Institutional and/or engineering control options to protect occupational receptors include but are not limited to the following: removal of shallow soil (at least from 0.0 to 1.0 feet bgs); paving; covering the property with a 3-foot layer of clean compacted fill material; additional investigations to delineate arsenic concentrations in shallow soil; developing an asphalt cap maintenance plan; developing a CMMP with or without DEQ approval; and/or applying a deed notice (e.g. to ensure the asphalt cap is maintained). Another option for consideration is preparation of a Site-specific human health risk assessment to account for the relatively minimal amount of time future workers will be present at the Subject Property.
2. The generic construction workers RBC for total arsenic under the *soil ingestion, dermal contact, and inhalation exposure pathway* assumes construction workers could be exposed over 1 year to arsenic during construction activities involving the disturbance of impacted-soils. However, it is unlikely construction workers would be working at the Subject Property continuously for 1 year. Furthermore, this risk could be easily mitigated with proper communication to future construction workers requiring they wear appropriate PPE and follow proper decontamination procedures subsequent to working in order to avoid exposure and health risks. The procedures documenting proper communication, appropriate PPE, and proper decontamination could be documented in a CMMP with or with DEQ approval.
3. The generic occupational RBC for lead and dieldrin under the *leaching to groundwater exposure pathway* conservatively assumes that a water supply well is being used at the Subject Property or proximal to it, and that these constituents could be leached from the shallow soil, impact groundwater, and that occupational receptors could subsequently be exposed to these constituents in drinking water. The Subject Property is currently undeveloped vacant land with no current water use. When developed, the

Subject Property will be serviced with municipal water by the Medford Water. The neighboring properties are either undeveloped land with no water use or have commercial/industrial use and utilize private well water and/or municipal water and will likely continue to utilize private well water and/or municipal water in the future. A review of the WRD well records indicates the Subject Property has no water supply wells. Based on the general topography in the vicinity of the Subject Property, it is expected that groundwater at the Subject Property flows to the west-northwest towards the unnamed creek (tributary of Upton Slough) that flows through the northern and northwestern portion of TL 900. Given the current groundwater use status at the Subject Property (i.e. the absence of wells, no current water use, and the future planned municipal water use), it is highly unlikely potentially leached lead and dieldrin from the shallow soil into groundwater at the Subject Property will pose an unacceptable risk to occupational receptors at the Subject Property. To completely eliminate the potential risk that leaching of these constituents to groundwater might pose to occupational receptors at the Subject Property, a groundwater investigation could be conducted and/or a deed notice could be developed and applied that prohibits the installation of wells to supply water to occupational receptors at the Subject Property. It should also be noted the concentrations of lead and dieldrin attenuate to concentrations below their respective generic RBCs for the *leaching to groundwater exposure pathway* for occupational receptors at depths of 1.0 feet bgs and 0.5 feet bgs, respectively. These data indicate that if the upper 1.0 foot of soil is removed during development to meet geotechnical requirements, this potential risk is eliminated.

4. The Clean Fill Values were exceeded by several constituents in the composite samples collected throughout the Subject Property at a depth ranging from 0.0 to 3.0 feet bgs. These constituents included arsenic, lead, 4,4'-DD, 4,4'-DDT, and dieldrin. If soil from 1.0 to 3.0 feet bgs is excavated throughout the Subject Property, it can be reused on the Subject Property as unrestricted fill. However, if this soil is exported off of the Subject Property, it should be managed appropriately to ensure it does not adversely impact ecological receptors. For example, this soil could be properly disposed of at a quarry under a DEQ-approved SWLA. It should be noted the soil at a depth of 0.0 to 1.0 feet bgs should be addressed as described under bullet #1 to address potential arsenic risks for occupational receptors under the *soil ingestion, dermal contact, and inhalation exposure pathway*.

Based on the available data, AEC concluded that the historical orchard practices at the Subject Property involving pesticides have adversely impacted the surficial soil and are considered a REC. The available data reflect the adverse impacts are in the soil within the investigated interval of 0.0 to 3.0 feet bgs.

Based on these findings and accounting for the inherent uncertainties associated with any subsurface investigation, AEC recommends the following:

- Consider entering DEQ's VCP to obtain an updated NFA determination, which will concurrently ensure future occupants are not exposed to unacceptable risks associated with residual pesticides contamination and provide the property owner and associated business entities with liability protection.

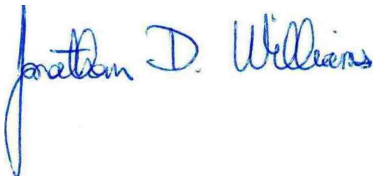
- Consider investigating the groundwater and/or developing and applying a deed notice that prohibits the installation of wells to supply water to occupational receptors at the Subject Property.

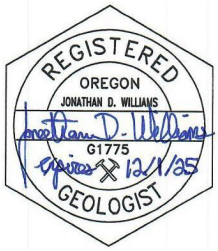
- During development activities, appropriately manage potential risks associated with residual pesticides concentrations in shallow soil that are above generic RBCs (e.g. arsenic) and/or Clean Fill values in the upper 3.0 feet of soil of the Subject Property. If this soil is to be excavated during development and moved off of the Subject Property, the soil should be disposed of consistent with DEQ regulations, examples being disposal under a DEQ-approved SWLA or disposal at an approved landfill (e.g. Dry Creek Landfill).

Please feel free to contact Jonathan Williams at 541-944-4685 or jwilliams@alpine-env-llc.com if you have any questions about this Phase II ESA report.

Sincerely,

Alpine Environmental Consultants, LLC





Jonathan D. Williams, R.G.
Senior Hydrogeologist

Antonela Vadan, R.G.
Project Geologist

5 REFERENCES

Oregon Department of Environmental Quality (DEQ). March 2013. *Development of Oregon Background Metals Concentrations in Soil*, Technical report. Land Quality Division, Cleanup Program. (DEQ, 2013).

Oregon DEQ. October 2017. *Risk-Based Decision Making for the Remediation of Contaminated Sites*. Updated on October 17, 2017 (DEQ, 2017).

Oregon DEQ. June 2019. *Guidance for Evaluating Residual Pesticides on Lands Formerly Used for Agricultural Production*. Land Quality Division, Cleanup Program. Developed in January 2006 and Updated in June 2019 (DEQ, June 2019).

Oregon DEQ. February 21, 2019. Clean Fill Determinations. Materials Management Division. (DEQ, February 2019).

6 LIMITATIONS

The purpose of an environmental assessment is to reasonably evaluate the potential for or actual impact of past practices on a given Subject Property area. In performing an environmental assessment, it is understood that a balance must be struck between a reasonable inquiry into the environmental issues and an exhaustive analysis of each conceivable issue of potential concern. This environmental assessment contains professional opinions as to the environmental issues of concern and/or additional actions, which may be addressed to the property. In rendering its professional opinion, we warrant that services provided hereunder were performed, within the limits described, consistent with current generally accepted environmental consulting principles and practices. No other warranty, express or implied, is made. The following paragraphs discuss the assumptions and parameters under which such an opinion is rendered.

No investigation is thorough enough to exclude the presence of hazardous materials at a given Subject Property. If hazardous conditions have not been identified during the assessment, such a finding should not therefore be construed as a guarantee of the absence of such materials on the Subject Property, but rather as the result of the services performed within the scope, limitations, and cost of the work performed.

Any opinions or recommendations presented apply to Subject Property conditions existing when services were performed. We are unable to report on or accurately predict events that may change the Subject Property conditions after the described services are performed, whether occurring naturally or caused by external forces. We assume no responsibility for conditions we were not authorized to investigate, or conditions not generally recognized as environmentally unacceptable when services were performed.

Environmental conditions may exist at the Subject Property that cannot be identified by visual observation. Where the scope of services was limited to observations made during Subject Property reconnaissance, interviews, review of readily available reports and literature or any combination, any conclusions or recommendations or both are necessarily based in part on information supplied by others, the accuracy or sufficiency of which we may not have independently reviewed.

Where subsurface work was performed, our professional opinions are based in part on interpretation of data from discrete sampling locations that may not represent actual conditions at unsampled locations.

Except where there is express concern of our client, or where specific environmental contaminants have been previously reported by others, naturally occurring toxic substances, potential environmental contaminants inside buildings, or contaminant concentrations that are not of current environmental concern may not be reflected in this document.

We are not responsible for any potential impact of changes in applicable environmental standards, practices, or regulations following performance of services, on the conclusions or recommendations, or both, of the study.

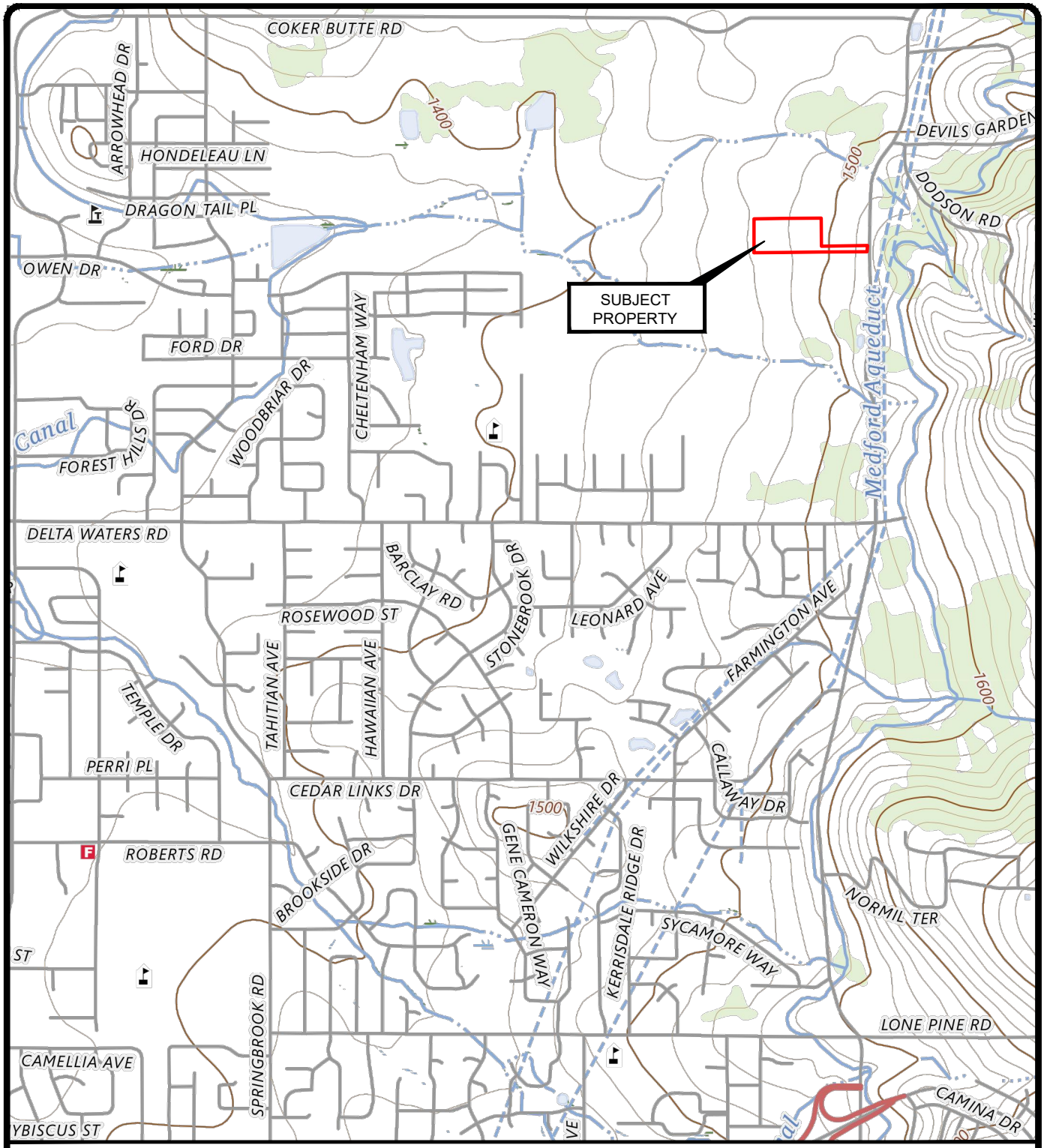
Services hereunder were performed consistent with our agreement and understanding with, and solely for the use of, our client. Opinions and recommendations are intended for the client, purpose, Subject Property, location, time frame, and project parameters indicated. We are not responsible for subsequent separation, detachment, or partial use of this document. Any reliance on this report by a third party shall be at such party's sole risk.

7 QUALIFICATIONS OF ENVIRONMENTAL PROFESSIONALS

Mr. Jonathan Williams received a Bachelor of Science degree in Geology, with honors, from Duke University in 1987. He has over 28 years experience working with geologic and environmental reports, including Phase I ESAs. Mr. Williams has been a Registered Geologist in the State of Oregon since 1996, and has 40-hour HAZWOPER training.

Ms. Antonela Vadan holds a Bachelor of Arts and Science in Earth and Environmental Sciences from the University of Illinois at Chicago. She has over 20 years of experience in both the private and public sector. Ms. Vadan has conducted multiple Phase I ESAs. Additional project activities have included risk assessments, remedial investigations/feasibility studies, soil and groundwater investigations, and indoor air quality investigations. Ms. Vadan is a Registered Geologist in the States of Oregon and Washington and has 40-hour HAZWOPER training.

FIGURES



SOURCE: U.S.G.S. 7.5 MINUTE TOPOGRAPHIC QUADRANGLE
MEDFORD EAST, OR (2024)

SCALE FEET
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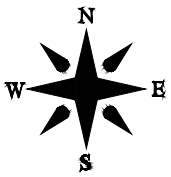

ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 5/23/25 DRAWN BY: SRM

Figure 1
Subject Property Location Map
Phase II ESA
6.37-Acre Portion of Map 371W09 TL 900
Medford, Oregon

f1_LocMap_r2

SOURCE: GOOGLE EARTH (2024)

LEGEND

Approximate Site Boundary

TP1 × Test Pit Location

SCALE FEET

0 250 500

N W E S

ALPINE ENVIRONMENTAL CONSULTANTS, LLC

DATE: 5/23/25 DRAWN BY: SRM

Figure 2
Subject Property Map
Phase II ESA
6.37-Acre Portion of Map 371W09 TL 900
Medford, Oregon

f2_SubjectPropMap_i2

TABLES

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean fill screening levels for Cascade Mountains and background metals in Soil (e), (f)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		COMP-0.0-0.5	COMP-0.5-1.0	COMP-1.0-1.5	COMP-1.5-2.0	COMP-2.0-3.0
							Composite soil samples of subsamples collected from test pits TP1 through TP10				
							0.0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
Parameter	OCC.	C.W.	E.W.	OCC.	OCC.		04/10/25	04/10/25	04/10/25	04/10/25	04/10/25
Total Metals (mg/kg) USEPA 6020B (ICPMS)											
Antimony	NE	NE	NE	NE	NE	0.67	1.10U, PRO	1.11U, PRO	1.12U, PRO	1.09U, PRO	1.08U, PRO
Arsenic	1.9	15	420	NV	*	19	**56.0 PRO**	**25.8 PRO**	**9.65 PRO**	**11.1 PRO**	**8.25 PRO**
Barium	220,000	69,000	>Max	NV	*	630	**199 PRO**	**213 PRO**	**223 PRO**	**220 PRO**	**238 PRO**
Beryllium	2,300	700	19,000	NV	*	2.1	**0.949 PRO**	**0.985 PRO**	**1.03 PRO**	**0.996 PRO**	**1.17 PRO**
Cadmium	1,100	350	9,700	NV	*	0.54	0.219U, PRO	0.222U, PRO	0.225U, PRO	0.217U, PRO	0.216U, PRO
Chromium (III)	>Max	530,000	>Max	NV	*	200	**28.6 PRO**	**27.4 PRO**	**28.2 PRO**	**28.7 PRO**	**31.3 PRO**
Cobalt	NE	NE	NE	NE	NE	NA	**16.8 PRO**	**16.3 PRO**	**16.0 PRO**	**15.7 PRO**	**15.9 PRO**
Copper	47,000	14,000	390,000	NV	*	73	**44.2 PRO**	**39.9 PRO**	**39.6 PRO**	**40.9 PRO**	**47.5 PRO**
Lead	800	800	800	NV	30	34	**246 PRO**	**98.4 PRO**	**28.9 PRO**	**31.9 PRO**	**19.1 PRO**
Mercury	350	110	2,900	NV	*	0.24	0.0877U, PRO	0.0886U, PRO	0.0900U, PRO	0.0868U, PRO	0.0865U, PRO
Molybdenum	NE	NE	NE	NE	NE	NA	1.10U, PRO	1.11U, PRO	1.12U, PRO	1.09U, PRO	1.08U, PRO
Nickel	22,000	7,000	190,000	NV	*	110	**25.7 PRO**	**26.3 PRO**	**26.8 PRO**	**26.2 PRO**	**28.5 PRO**
Selenium	NE	NE	NE	NE	NE	0.52	1.10U, PRO	1.11U, PRO	1.12U, PRO	1.09U, PRO	1.08U, PRO
Silver	5,800	1,800	49,000	NV	*	0.17	0.219U, PRO	0.222U, PRO	0.225U, PRO	0.217U, PRO	0.216U, PRO
Thalium	NE	NE	NE	NE	NE	2.8	**0.249 PRO**	**0.229 PRO**	0.225U, PRO	0.217U, PRO	0.219 PRO
Vanadium	NE	NE	NE	NE	NE	280	**66.7 PRO**	**63.4 PRO**	**65.1 PRO**	**62.8 PRO**	**68.4 PRO**
Zinc	NE	NE	NE	NE	NE	170	**77.7 PRO**	**60.4 PRO**	**55.8 PRO**	**59.2 PRO**	**67.7 PRO**

See notes on next page.

Table 1. Soil Samples Analytical Results - Total Metals
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Analytical data highlighted in yellow indicates the value exceeded a generic RBC.

Analytical data highlighted in blue indicates the value exceeded the clean fill screening levels.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

* - Leaching to groundwater RBCs are not provided for inorganic chemicals. If this pathway is of concern, then site-specific leaching tests must be performed.

Data Qualifiers:

PRO -Sample has undergone sample processing prior to extraction and analysis.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the July 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(d) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(e) DEQ's Background Concentrations in Soil are referenced from the DEQ's Development of Oregon Background Metals Concentrations in Soil technical report dated March 2013. The background concentrations included in this table are 95% Upper Prediction Limit (UPL) for the Cascade Mountains region, which includes the Medford area and the Site.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations Internal Management Directive document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

ICP-MS - Inductively Coupled Plasma Mass Spectrometry

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

NV - The chemical is considered "nonvolatile" for the purposes of the exposure calculations.

RBC - risk-based concentration

OCC - occupational receptors

USEPA - United States Environmental Protection Agency

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean fill screening levels (e)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		COMP-0.0-0.5	COMP-0.5-1.0	COMP-1.0-1.5	COMP-1.5-2.0	COMP-2.0-3.0
							Composite soil samples of subsamples collected from test pits TP1 through TP10				
							0.0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
Parameter	OCC.	C.W.	E.W.	OCC.	OCC.		04/10/25	04/10/25	04/10/25	04/10/25	04/10/25
Organochlorine Pesticides (mg/kg) USEPA 8081B											
Aldrin	0.13	1.1	30	>Csat	0.1	0.023	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
alpha-BHC	0.36	3	83	NV	0.023	0.0063	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
beta-BHC	NE	NE	NE	NE	NE	0.009	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
delta-BHC	NE	NE	NE	NE	NE	NE	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
gamma-BHC (Lindane)	2.1	17	470	NV	0.13	0.0095	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Chlordane	7.4	61	1700	>Csat	2.1	0.91	0.534U, C-05, PRO	0.268 C-05, PRO	0.0532U, C-05, PRO	0.0541U, C-05, PRO	0.0536U, C-05, PRO
cis-Chlordane (Chlordane RBCs)	7.4	61	1700	>Csat	2.1	0.91	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
trans-Chlordane (Chlordane RBCs)	7.4	61	1700	>Csat	2.1	0.91	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
4,4'-DDD	12	94	2,600	NV	2.6	0.0063	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
4,4'-DDE	8.2	66	1,800	>Csat	7.5	0.01	**0.477 C-05, PRO**	**0.250 C-05, PRO**	**0.0372 C-05, PRO**	**0.0683 C-05, PRO**	**0.0162 C-05, PRO**
4,4-DDT	8.5	66	1,800	NV	70	0.01	**0.0843 C-05, PRO**	**0.0365 C-05, PRO**	**0.00334 C-05, PRO**	**0.00997 C-05, PRO**	**0.00192 C-05, PRO**
Dieldrin	0.14	1.2	33	NV	0.030	0.0045	**0.0313 C-05, PRO**	**0.0191 C-05, PRO**	0.00177U, C-05, PRO	**0.00221 C-05, PRO**	0.00179U, C-05, PRO
Endosulfan I (Endosulfan alpha-beta RBC)	4900	1600	45,000	>Max	>Csat	0.64	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Endosulfan II (Endosulfan alpha-beta RBC)	4900	1600	45,000	>Max	>Csat	0.64	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Endosulfan Sulfate (Endosulfan alpha-beta RBC)	4900	1600	45,000	>Max	>Csat	0.64	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Endrin	250	80	2200	NV	>Csat	0.0014	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Endrin Aldehyde (Endrin RBC)	250	80	2200	NV	>Csat	0.0014	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Endrin Ketone (Endrin RBC)	250	80	2200	NV	>Csat	0.0014	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Heptachlor	0.45	4	110	230	0.048	0.017	0.0178U, C-05, PRO	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Heptachlor expoxide	0.24	2	56	>Csat	0.016	0.0042	**0.0178U, C-05, PRO**	0.00894 C-05, PRO	0.00177U, C-05, PRO	0.00180U, C-05, PRO	0.00179U, C-05, PRO
Methoxychlor	NE	NE	NE	NE	NE	5.1	0.0534U, C-05, PRO	0.0268 C-05, PRO	0.00532U, C-05, PRO	0.00541U, C-05, PRO	0.00536U, C-05, PRO
Toxaphene (Total)	2.1	17	470	NV	0.93	0.36	0.534U, C-05, PRO	0.268 C-05, PRO	0.0532U, C-05, PRO	0.0541U, C-05, PRO	0.0536U, C-05, PRO

See notes on next page.

Table 2. Soil Samples Analytical Results - Organochlorine Pesticides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900gon

Notes:

Analytical data in bold font indicates that the value exceeds the laboratory method reporting limit.

Analytical data highlighted in blue indicates the value exceeded the clean fill screening levels.

Analytical data highlighted in both yellow and blue indicates the value exceeded one or more generic RBCs and the Clean Fill Value.

Analytical data highlighted in blue font indicates the method reporting limit exceeds an RBC.

Data Qualifiers:

C-05 - Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.

PRO - Sample has undergone sample processing prior to extraction and analysis.

U - The analyte was analyzed for, but was not detected above the analytical laboratory method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the July 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations Internal Management Directive document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

OCC - occupational receptors

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

alpha-BHC = alpha-Hexachlorocyclohexane
4,4'-DDD = 4,4'-Dichlorodiphenyldichloroethane
4,4'-DDE = 4,4'-Dichlorodiphenyldichloroethene
4,4-DDT = 4,4'-Dichlorodiphenyltrichloroethane

Table 3. Soil Samples Analytical Results - Organophosphorus Herbicides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean fill screening levels (e)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		COMP-0.0-0.5	COMP-0.5-1.0	COMP-1.0-1.5	COMP-1.5-2.0	COMP-2.0-3.0
							Composite soil samples of subsamples collected from test pits TP1 through TP10				
							0.0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
Parameter	OCC.	C.W.	E.W.	OCC.	OCC.		04/10/25	04/10/25	04/10/25	04/10/25	04/10/25
Organophosphorus Pesticides (mg/kg) USEPA Method 8270E											
Azinphos methyl (Guthion)	NE	NE	NE	NE	NE	1	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Chlorpyrifos	NE	NE	NE	NE	NE	7.2	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Coumaphos	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Demeton-O	NE	NE	NE	NE	NE	2.5	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Demeton-S	NE	NE	NE	NE	NE	2.5	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Diazinon	NE	NE	NE	NE	NE	3.9	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Dichlorvos	NE	NE	NE	NE	NE	0.0049	**0.0446U, PRO**	**0.0467U, PRO**	**0.0452U, PRO**	**0.0440U, PRO**	**0.0464U, PRO**
Dimethoate	NE	NE	NE	NE	NE	0.59	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Disulfoton	NE	NE	NE	NE	NE	0.056	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
EPN	NE	NE	NE	NE	NE	0.17	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Ethoprop	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Fensulfothion	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Fenthion	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Malathion	NE	NE	NE	NE	NE	6	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Merphos	NE	NE	NE	NE	NE	NE	0.145U, R-02, PRO	0.0860U, R-02, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Methyl parathion	NE	NE	NE	NE	NE	2.3	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Mevinphos (Phosdrin)	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Monocrotophos	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Naled (Dibrom)	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Parathion, ethyl	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Phorate	NE	NE	NE	NE	NE	1.1	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Ronnel (Fenchlorphos)	NE	NE	NE	NE	NE	0.2	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Sulfotep	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Sulprofos (Bolstar)	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
TEPP	NE	NE	NE	NE	NE	NE	0.178U, PRO	0.187U, PRO	0.181U, PRO	0.176U, PRO	0.186U, PRO
Tetrachlorvinphos (Rabon)	NE	NE	NE	NE	NE	0.49	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Tokuthion (Prothiofos)	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO
Trichloronate	NE	NE	NE	NE	NE	NE	0.0446U, PRO	0.0467U, PRO	0.0452U, PRO	0.0440U, PRO	0.0464U, PRO

See notes on next page.

Table 3. Soil Samples Analytical Results - Organophosphorus Pesticides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

Notes:

Analytical data highlighted in blue font indicates the method reporting limit exceeds an RBC.

Data Qualifiers:

PRO - Sample has undergone sample processing prior to extraction and analysis.

R-02 - The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.

U - The analyte was analyzed for, but was not detected above the analytical laboratory's method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the July 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations Internal Management Directive document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

ug/kg - microgrmas per kilogram

OCC - occupational receptors

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

	DEQ Risk-Based Concentrations for Soil (a)					DEQ's Clean fill screening levels (e)	Test Pit Samples				
	Ingestion, Dermal Contact and Inhalation (b)			Volatilization to Outdoor Air (c)	Leaching to Groundwater (d)		COMP-0.0-0.5	COMP-0.5-1.0	COMP-1.0-1.5	COMP-1.5-2.0	COMP-2.0-3.0
							Composite soil samples of subsamples collected from test pits TP1 through TP10				
							0.0-0.5 ft bgs	0.5-1.0 ft bgs	1.0-1.5 ft bgs	1.5-2.0 ft bgs	2.0-3.0 ft bgs
Parameter	OCC.	C.W.	E.W.	OCC.	OCC.		04/10/25	04/10/25	04/10/25	04/10/25	04/10/25
Chlorinated Herbicides (mg/kg) USEPA 8321B											
2,4-DB	NE	NE	NE	NE	NE	25	0.0510U	0.0099U	0.0099U	0.0100U	0.0100U
2,4-D	8,200	2,700	74,000	NV	16	2.3	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
MCPA	410	130	3,700	NV	0.61	0.097	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
2,4,5-T	NE	NE	NE	NE	NE	4.1	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
2,4,5-TP (Silvex)	NE	NE	NE	NE	NE	3.7	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
MCPP	NE	NE	NE	NE	NE	NE	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
Dicamba	NE	NE	NE	NE	NE	9	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
Dichloroprop	NE	NE	NE	NE	NE	NE	0.0250U	0.0049U	0.0050U	0.0050U	0.0050U
Dalapon	NE	NE	NE	NE	NE	7.2	0.0510U	0.0099U	0.0099U	0.0100U	0.0100U
Dinoseb	NE	NE	NE	NE	NE	7.8	0.0510U	0.0099U	0.0099U	0.0100U	0.0100U

See notes on next page.

Table 4. Soil Samples Analytical Results - Chlorinated Herbicides
Phase II Environmental Site Assessment - 3721 North Foothill Rd., Medford, Oregon; 6.37-Acre Portion of Map 371W09 and TL 900

Notes:

Data Qualifiers:

H - Sample was prepped or analyzed beyond the specified holding time. This does not meet regulatory requirements.

H3 - Sample was received and analyzed past holding time. This does not meet regulatory requirements.

U - The analyte was analyzed for, but was not detected above the analytical laboratory's method reporting limit.

Footnotes:

(a) Risk-Based Concentrations are referenced from the July 2023 update to the DEQ's Risk-Based Decision Making for the Remediation of Petroleum-Contaminated Sites guidance document dated September 2003.

(b) This pathway is applicable anytime someone is likely to come into contact with contaminated soil. For the occupational scenario, exposure to contaminated soils should be considered for all contaminants found in the top three feet of soil.

(c) This pathway is applicable whenever vadose zone soils are contaminated with volatile compounds.

(e) This pathway is applicable whenever vadose zone contamination is found overlying an aquifer that is currently used or is reasonably likely to be used in the future for drinking water.

(f) Clean Fill Values are referenced from the DEQ's Clean Fill Determinations Internal Management Directive document dated February 2019.

Symbols/Acronyms:

bgs - below ground surface

C.W. - construction worker receptor

>Csat - The soil RBC exceeds the limit of three-phase equilibrium partitioning. Soil concentrations in excess of this value indicate free product might be present.

DEQ - Department of Environmental Quality

E.W. - excavation worker receptor

ft - feet

>Max - The constituent RBC for this pathway is greater than 1,000,000 mg/Kg or 1,000,000 mg/L. Therefore, these substances are not expected to pose risks in the scenario shown.

mg/kg - milligrams per kilogram

NA - Sample was not analyzed for this analyte.

NE - No RBC levels are established for this chemical.

OCC - occupational receptors

RBC - risk-based concentration

USEPA - United States Environmental Protection Agency

2.4-DB =	4-(2,4-dichlorophenoxy)butyric acid
2,4-D =	2,4-Dichlorophenoxyacetic acid
MCPA =	2-Methyl-4-chlorophenoxyacetic acid
2,4,5-T =	2,4,5-Trichlorophenoxyacetic acid
2,4,5-TP =	2-(2,4,5-trichlorophenoxy)propionic acid
MCPP =	Methylchlorophenoxypropionic acid

APPENDIX 1

Photographic Documentation

1. Kubota KX04-4 mini excavator.

4. Test Pit TP5.

2. The Site: Facing northwest.

5. Test Pit TP5.

3. The Site: Facing southeast.

6. Test Pit TP1.

7. Test Pit TP2.

10. Test Pit TP8.

8. Test Pit TP3.

11. Test Pit TP8.

9. Test Pit TP4.

12. Test Pit TP7.

13. Test Pit TP7.

16. Test Pit TP9.

14. Test Pit TP6.

17. Test Pit TP10.

15. Test Pit TP9.

APPENDIX 3

Complete Laboratory Results

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

ANALYTICAL REPORT

Thursday, May 8, 2025

Jonathan Williams
Alpine Environmental Consultants
12210 Antioch Road
White City, OR 97503

RE: A5D1452 - Foothill-Medford Water Project - AEC2025-07

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 A5D1452, which was received by the laboratory on 4/15/2025 at 12:00:00PM.

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

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

Cooler Receipt Information
Acceptable Receipt Temperature is less than, or equal to, 6 degC (not frozen), or received on ice the same day as sampling.
(See Cooler Receipt Form for details)
Default Cooler 4.9 degC

This Final Report is the official version of the data results for this sample submission, unless superseded by a subsequent, labeled amended report.
All other deliverables derived from this data, including Electronic Data Deliverables (EDDs), CLP-like forms, client requested summary sheets, and all other products are considered secondary to this report.

Apex Laboratories

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

Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL REPORT FOR SAMPLES

SAMPLE INFORMATION

Client Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
COMP-0.0-0.5	A5D1452-01	Soil	04/10/25 12:30	04/15/25 12:00
COMP-0.0-0.5	A5D1452-02	Soil	04/10/25 12:30	04/15/25 12:00
COMP-0.5-1.0	A5D1452-03	Soil	04/10/25 12:35	04/15/25 12:00
COMP-0.5-1.0	A5D1452-04	Soil	04/10/25 12:35	04/15/25 12:00
COMP-1.0-1.5	A5D1452-05	Soil	04/10/25 12:40	04/15/25 12:00
COMP-1.0-1.5	A5D1452-06	Soil	04/10/25 12:40	04/15/25 12:00
COMP-1.5-2.0	A5D1452-07	Soil	04/10/25 12:45	04/15/25 12:00
COMP-1.5-2.0	A5D1452-08	Soil	04/10/25 12:45	04/15/25 12:00
COMP-2.0-3.0	A5D1452-09	Soil	04/10/25 12:50	04/15/25 12:00
COMP-2.0-3.0	A5D1452-10	Soil	04/10/25 12:50	04/15/25 12:00

Apex Laboratories

Darwin Thomas, Business Development 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.

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

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.0-0.5 (A5D1452-02RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Aldrin	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
alpha-BHC	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
beta-BHC	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
delta-BHC	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
cis-Chlordane	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
trans-Chlordane	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
4,4'-DDD	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
4,4'-DDE	**0.477**	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
4,4'-DDT	**0.0843**	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Dieldrin	**0.0313**	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endosulfan I	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endosulfan II	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endosulfan sulfate	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endrin	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endrin aldehyde	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Endrin ketone	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Heptachlor	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Heptachlor epoxide	ND	---	0.0178	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Methoxychlor	ND	---	0.0534	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Chlordane (Technical)	ND	---	0.534	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Toxaphene (Total)	ND	---	0.534	mg/kg dry	10	05/02/25 14:44	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*79 %*	*Limits: 42-129 %*	*10*	*05/02/25 14:44*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*99 %*	*55-130 %*	*10*	*05/02/25 14:44*	*EPA 8081B*	
COMP-0.5-1.0 (A5D1452-04RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Aldrin	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
alpha-BHC	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
beta-BHC	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
delta-BHC	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
cis-Chlordane	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
trans-Chlordane	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.5-1.0 (A5D1452-04RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
4,4'-DDD	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
4,4'-DDE	**0.250**	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
4,4'-DDT	**0.0365**	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Dieldrin	**0.0191**	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endosulfan I	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endosulfan II	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endosulfan sulfate	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endrin	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endrin aldehyde	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Endrin ketone	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Heptachlor	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Heptachlor epoxide	ND	---	0.00894	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Methoxychlor	ND	---	0.0268	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Chlordane (Technical)	ND	---	0.268	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Toxaphene (Total)	ND	---	0.268	mg/kg dry	5	05/02/25 15:16	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*76 %*	*Limits: 42-129 %*	*5*	*05/02/25 15:16*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*91 %*	*55-130 %*	*5*	*05/02/25 15:16*	*EPA 8081B*	
COMP-1.0-1.5 (A5D1452-06RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Aldrin	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
alpha-BHC	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
beta-BHC	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
delta-BHC	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
cis-Chlordane	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
trans-Chlordane	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
4,4'-DDD	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
4,4'-DDE	**0.0372**	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
4,4'-DDT	**0.00334**	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Dieldrin	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Endosulfan I	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Endosulfan II	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Endosulfan sulfate	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	

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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-1.0-1.5 (A5D1452-06RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Endrin	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Endrin aldehyde	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Endrin ketone	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Heptachlor	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Heptachlor epoxide	ND	---	0.00177	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Methoxychlor	ND	---	0.00532	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Chlordane (Technical)	ND	---	0.0532	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Toxaphene (Total)	ND	---	0.0532	mg/kg dry	1	05/02/25 15:32	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*88 %*	*Limits: 42-129 %*	*1*	*05/02/25 15:32*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*101 %*	*55-130 %*	*1*	*05/02/25 15:32*	*EPA 8081B*	
COMP-1.5-2.0 (A5D1452-08RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Aldrin	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
alpha-BHC	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
beta-BHC	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
delta-BHC	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
cis-Chlordane	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
trans-Chlordane	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
4,4'-DDD	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
4,4'-DDE	**0.0683**	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
4,4'-DDT	**0.00997**	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Dieldrin	**0.00221**	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endosulfan I	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endosulfan II	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endosulfan sulfate	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endrin	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endrin aldehyde	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Endrin ketone	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Heptachlor	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Heptachlor epoxide	ND	---	0.00180	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Methoxychlor	ND	---	0.00541	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Chlordane (Technical)	ND	---	0.0541	mg/kg dry	1	05/02/25 15:48	EPA 8081B	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-1.5-2.0 (A5D1452-08RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Toxaphene (Total)	ND	---	0.0541	mg/kg dry	1	05/02/25 15:48	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*90 %*	*Limits: 42-129 %*	*1*	*05/02/25 15:48*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*105 %*	*55-130 %*	*1*	*05/02/25 15:48*	*EPA 8081B*	
COMP-2.0-3.0 (A5D1452-10RE1)				**Matrix: Soil**		**Batch: 25D1115**		**C-05, PRO**
Aldrin	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
alpha-BHC	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
beta-BHC	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
delta-BHC	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
gamma-BHC (Lindane)	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
cis-Chlordane	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
trans-Chlordane	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
4,4'-DDD	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
4,4'-DDE	**0.0162**	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
4,4'-DDT	**0.00192**	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Dieldrin	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endosulfan I	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endosulfan II	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endosulfan sulfate	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endrin	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endrin aldehyde	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Endrin ketone	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Heptachlor	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Heptachlor epoxide	ND	---	0.00179	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Methoxychlor	ND	---	0.00536	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Chlordane (Technical)	ND	---	0.0536	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Toxaphene (Total)	ND	---	0.0536	mg/kg dry	1	05/02/25 16:05	EPA 8081B	
Surrogate: 2,4,5,6-TCMX (Surr)		*Recovery:*	*90 %*	*Limits: 42-129 %*	*1*	*05/02/25 16:05*	*EPA 8081B*	
Decachlorobiphenyl (Surr)			*109 %*	*55-130 %*	*1*	*05/02/25 16:05*	*EPA 8081B*	

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.0-0.5 (A5D1452-02)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Azinphos methyl (Guthion)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Chlorpyrifos	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Coumaphos	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Demeton O	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Demeton S	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Diazinon	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Dimethoate	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Disulfoton	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
EPN	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Ethoprop	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Fenthion	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Malathion	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Merphos	ND	---	0.145	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	R-02
Methyl parathion	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Phorate	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Sulfotep	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
TEPP	ND	---	0.178	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Trichloronate	ND	---	0.0446	mg/kg dry	1	04/23/25 13:23	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)		*Recovery:*	*11 %*	*Limits: 10-136 %*	*1*	*04/23/25 13:23*	*EPA 8270E OPPs*	
Triphenyl phosphate (Surr)			*44 %*	*34-121 %*	*1*	*04/23/25 13:23*	*EPA 8270E OPPs*	
COMP-0.5-1.0 (A5D1452-04)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Azinphos methyl (Guthion)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	

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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.5-1.0 (A5D1452-04)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Chlorpyrifos	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Coumaphos	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Demeton O	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Demeton S	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Diazinon	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Dimethoate	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Disulfoton	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
EPN	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Ethoprop	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Fenthion	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Malathion	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Merphos	ND	---	0.0860	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	R-02
Methyl parathion	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Phorate	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Sulfotep	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
TEPP	ND	---	0.187	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Trichloronate	ND	---	0.0467	mg/kg dry	1	04/23/25 15:47	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)		*Recovery:*	*12 %*	*Limits: 10-136 %*	*1*	*04/23/25 15:47*	*EPA 8270E OPPs*	
Triphenyl phosphate (Surr)			*34 %*	*34-121 %*	*1*	*04/23/25 15:47*	*EPA 8270E OPPs*	
COMP-1.0-1.5 (A5D1452-06)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Azinphos methyl (Guthion)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Chlorpyrifos	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	

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Darwin Thomas, Business Development Director

Apex Laboratories, LLC
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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-1.0-1.5 (A5D1452-06)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Coumaphos	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Demeton O	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Demeton S	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Diazinon	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Dimethoate	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Disulfoton	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
EPN	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Ethoprop	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Fenthion	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Malathion	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Merphos	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Methyl parathion	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Phorate	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Sulfotep	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
TEPP	ND	---	0.181	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Trichloronate	ND	---	0.0452	mg/kg dry	1	04/23/25 16:24	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)		*Recovery:*	*9 %*	*Limits: 10-136 %*	*1*	*04/23/25 16:24*	*EPA 8270E OPPs*	*S-03*
Triphenyl phosphate (Surr)			*11 %*	*34-121 %*	*1*	*04/23/25 16:24*	*EPA 8270E OPPs*	*S-03*
COMP-1.5-2.0 (A5D1452-08)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Azinphos methyl (Guthion)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Chlorpyrifos	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Coumaphos	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	

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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-1.5-2.0 (A5D1452-08)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Demeton O	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Demeton S	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Diazinon	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Dimethoate	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Disulfoton	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
EPN	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Ethoprop	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Fenthion	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Malathion	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Merphos	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Methyl parathion	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Phorate	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Sulfotep	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
TEPP	ND	---	0.176	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Trichloronate	ND	---	0.0440	mg/kg dry	1	04/23/25 17:00	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)			*Recovery: 9 %*	*Limits: 10-136 %*	*1*	*04/23/25 17:00*	*EPA 8270E OPPs*	*S-03*
Triphenyl phosphate (Surr)			*12 %*	*34-121 %*	*1*	*04/23/25 17:00*	*EPA 8270E OPPs*	*S-03*
COMP-2.0-3.0 (A5D1452-10)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Azinphos methyl (Guthion)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Chlorpyrifos	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Coumaphos	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Demeton O	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-2.0-3.0 (A5D1452-10)				**Matrix: Soil**		**Batch: 25D0927**		**PRO**
Demeton S	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Diazinon	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Dichlorvos	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Dimethoate	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Disulfoton	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
EPN	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Ethoprop	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Fensulfothion	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Fenthion	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Malathion	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Merphos	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Methyl parathion	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Mevinphos (Phosdrin)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Monocrotophos	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Naled (Dibrom)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Parathion, ethyl	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Phorate	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Ronnel (Fenchlorphos)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Sulfotep	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Sulprofos (Bolstar)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
TEPP	ND	---	0.186	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Tetrachlorvinphos (Rabon)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Tokuthion (Prothiofos)	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Trichloronate	ND	---	0.0464	mg/kg dry	1	04/23/25 17:36	EPA 8270E OPPs	
Surrogate: Tributyl phosphate (Surr)			*Recovery: 9 %*	*Limits: 10-136 %*	*1*	*04/23/25 17:36*	*EPA 8270E OPPs*	*S-03*
Triphenyl phosphate (Surr)			*16 %*	*34-121 %*	*1*	*04/23/25 17:36*	*EPA 8270E OPPs*	*S-03*

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.0-0.5 (A5D1452-02)				**Matrix: Soil**				
Batch: 25D0867								
Antimony	ND	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Arsenic	**56.0**	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Barium	**199**	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Beryllium	**0.949**	---	0.219	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Cadmium	ND	---	0.219	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Chromium	**28.6**	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Cobalt	**16.8**	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Copper	**44.2**	---	2.19	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Lead	**246**	---	0.219	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Mercury	ND	---	0.0877	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Molybdenum	ND	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Nickel	**25.7**	---	2.19	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Selenium	ND	---	1.10	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Silver	ND	---	0.219	mg/kg dry	10	04/22/25 20:17	EPA 6020B	PRO
Thallium	**0.249**	---	0.219	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Vanadium	**66.7**	---	2.19	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
Zinc	**77.7**	---	4.39	mg/kg dry	10	04/22/25 20:17	EPA 6020B	**PRO**
COMP-0.5-1.0 (A5D1452-04)				**Matrix: Soil**				
Batch: 25D0867								
Antimony	ND	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO
Arsenic	**25.8**	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Barium	**213**	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Beryllium	**0.985**	---	0.222	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Cadmium	ND	---	0.222	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO
Chromium	**27.4**	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Cobalt	**16.3**	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Copper	**39.9**	---	2.22	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Lead	**98.4**	---	0.222	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Mercury	ND	---	0.0886	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO
Molybdenum	ND	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO
Nickel	**26.3**	---	2.22	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Selenium	ND	---	1.11	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO

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ORELAP ID: OR100062

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.5-1.0 (A5D1452-04)				**Matrix: Soil**				
Silver	ND	---	0.222	mg/kg dry	10	04/22/25 20:33	EPA 6020B	PRO
Thallium	**0.229**	---	0.222	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Vanadium	**63.4**	---	2.22	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
Zinc	**60.4**	---	4.43	mg/kg dry	10	04/22/25 20:33	EPA 6020B	**PRO**
COMP-1.0-1.5 (A5D1452-06)				**Matrix: Soil**				
Batch: 25D0867								
Antimony	ND	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Arsenic	**9.65**	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Barium	**223**	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Beryllium	**1.03**	---	0.225	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Cadmium	ND	---	0.225	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Chromium	**28.2**	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Cobalt	**16.0**	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Copper	**39.6**	---	2.25	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Lead	**28.9**	---	0.225	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Mercury	ND	---	0.0900	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Molybdenum	ND	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Nickel	**26.8**	---	2.25	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Selenium	ND	---	1.12	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Silver	ND	---	0.225	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Thallium	ND	---	0.225	mg/kg dry	10	04/22/25 20:39	EPA 6020B	PRO
Vanadium	**65.1**	---	2.25	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
Zinc	**55.8**	---	4.50	mg/kg dry	10	04/22/25 20:39	EPA 6020B	**PRO**
COMP-1.5-2.0 (A5D1452-08)				**Matrix: Soil**				
Batch: 25D0867								
Antimony	ND	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Arsenic	**11.1**	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Barium	**220**	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Beryllium	**0.996**	---	0.217	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Cadmium	ND	---	0.217	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Chromium	**28.7**	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Cobalt	**15.7**	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**

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ORELAP ID: OR100062

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-1.5-2.0 (A5D1452-08)				**Matrix: Soil**				
Copper	**40.9**	---	2.17	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Lead	**31.9**	---	0.217	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Mercury	ND	---	0.0868	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Molybdenum	ND	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Nickel	**26.2**	---	2.17	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Selenium	ND	---	1.09	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Silver	ND	---	0.217	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Thallium	ND	---	0.217	mg/kg dry	10	04/22/25 20:44	EPA 6020B	PRO
Vanadium	**62.8**	---	2.17	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
Zinc	**59.2**	---	4.34	mg/kg dry	10	04/22/25 20:44	EPA 6020B	**PRO**
COMP-2.0-3.0 (A5D1452-10)				**Matrix: Soil**				
Batch: 25D0867								
Antimony	ND	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Arsenic	**8.25**	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Barium	**238**	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Beryllium	**1.17**	---	0.216	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Cadmium	ND	---	0.216	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Chromium	**31.3**	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Cobalt	**15.9**	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Copper	**47.5**	---	2.16	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Lead	**19.1**	---	0.216	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Mercury	ND	---	0.0865	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Molybdenum	ND	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Nickel	**28.5**	---	2.16	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Selenium	ND	---	1.08	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Silver	ND	---	0.216	mg/kg dry	10	04/22/25 20:50	EPA 6020B	PRO
Thallium	**0.219**	---	0.216	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Vanadium	**68.4**	---	2.16	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**
Zinc	**67.7**	---	4.32	mg/kg dry	10	04/22/25 20:50	EPA 6020B	**PRO**

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

ANALYTICAL SAMPLE RESULTS

Percent Dry Weight

Analyte	Sample Result	Detection Limit	Reporting Limit	Units	Dilution	Date Analyzed	Method Ref.	Notes
COMP-0.0-0.5 (A5D1452-02)				**Matrix: Soil**		**Batch: 25D1008**		**PRO**
% Solids	**96.0**	---	1.00	%	1	04/25/25 05:07	EPA 8000D	
COMP-0.5-1.0 (A5D1452-04)				**Matrix: Soil**		**Batch: 25D1008**		**PRO**
% Solids	**96.8**	---	1.00	%	1	04/25/25 05:07	EPA 8000D	
COMP-1.0-1.5 (A5D1452-06)				**Matrix: Soil**		**Batch: 25D1008**		**PRO**
% Solids	**98.6**	---	1.00	%	1	04/25/25 05:07	EPA 8000D	
COMP-1.5-2.0 (A5D1452-08)				**Matrix: Soil**		**Batch: 25D1008**		**PRO**
% Solids	**98.5**	---	1.00	%	1	04/25/25 05:07	EPA 8000D	
COMP-2.0-3.0 (A5D1452-10)				**Matrix: Soil**		**Batch: 25D1008**		**PRO**
% Solids	**97.8**	---	1.00	%	1	04/25/25 05:07	EPA 8000D	

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: Foothill-Medford Water Project	
12210 Antioch Road	Project Number: AEC2025-07	Report ID:
White City, OR 97503	Project Manager: Jonathan Williams	A5D1452 - 05 08 25 0729

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D1115 - EPA 3546/3640A (GPC)							Soil					
Blank (25D1115-BLK1)			Prepared: 04/22/25 10:36 Analyzed: 05/02/25 14:11									C-05
EPA 8081B												
Aldrin	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
alpha-BHC	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
beta-BHC	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
delta-BHC	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
gamma-BHC (Lindane)	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
cis-Chlordane	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
trans-Chlordane	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
4,4'-DDD	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
4,4'-DDE	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
4,4'-DDT	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Dieldrin	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endosulfan I	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endosulfan II	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endosulfan sulfate	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endrin	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endrin aldehyde	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Endrin ketone	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Heptachlor	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Heptachlor epoxide	ND	---	0.00200	mg/kg wet	1	---	---	---	---	---	---	
Methoxychlor	ND	---	0.00600	mg/kg wet	1	---	---	---	---	---	---	
Chlordane (Technical)	ND	---	0.0600	mg/kg wet	1	---	---	---	---	---	---	
Toxaphene (Total)	ND	---	0.0600	mg/kg wet	1	---	---	---	---	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 85 %*		*Limits: 42-129 %*				*Dilution: 1x*			
Decachlorobiphenyl (Surr)			*111 %*		*55-130 %*				*"*			
LCS (25D1115-BS1)			Prepared: 04/22/25 10:36 Analyzed: 05/02/25 14:27									C-05
EPA 8081B												
Aldrin	0.0476	---	0.00200	mg/kg wet	1	0.0500	---	95	45-136%	---	---	
alpha-BHC	0.0460	---	0.00200	mg/kg wet	1	0.0500	---	92	45-137%	---	---	
beta-BHC	0.0483	---	0.00200	mg/kg wet	1	0.0500	---	97	50-136%	---	---	
delta-BHC	0.0444	---	0.00200	mg/kg wet	1	0.0500	---	89	47-139%	---	---	
gamma-BHC (Lindane)	0.0469	---	0.00200	mg/kg wet	1	0.0500	---	94	49-135%	---	---	
cis-Chlordane	0.0484	---	0.00200	mg/kg wet	1	0.0500	---	97	54-133%	---	---	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D1115 - EPA 3546/3640A (GPC)							**Soil**					
LCS (25D1115-BS1)			Prepared: 04/22/25 10:36	Analyzed: 05/02/25 14:27								**C-05**
trans-Chlordane	0.0475	---	0.00200	mg/kg wet	1	0.0500	---	95	53-135%	---	---	
4,4'-DDD	0.0478	---	0.00200	mg/kg wet	1	0.0500	---	96	56-139%	---	---	
4,4'-DDE	0.0502	---	0.00200	mg/kg wet	1	0.0500	---	100	56-134%	---	---	
4,4'-DDT	0.0508	---	0.00200	mg/kg wet	1	0.0500	---	102	50-141%	---	---	
Dieldrin	0.0489	---	0.00200	mg/kg wet	1	0.0500	---	98	56-136%	---	---	
Endosulfan I	0.0487	---	0.00200	mg/kg wet	1	0.0500	---	97	53-132%	---	---	
Endosulfan II	0.0474	---	0.00200	mg/kg wet	1	0.0500	---	95	53-134%	---	---	
Endosulfan sulfate	0.0466	---	0.00200	mg/kg wet	1	0.0500	---	93	55-136%	---	---	
Endrin	0.0517	---	0.00200	mg/kg wet	1	0.0500	---	103	57-140%	---	---	
Endrin aldehyde	0.0463	---	0.00200	mg/kg wet	1	0.0500	---	93	35-137%	---	---	
Endrin ketone	0.0477	---	0.00200	mg/kg wet	1	0.0500	---	95	55-136%	---	---	
Heptachlor	0.0488	---	0.00200	mg/kg wet	1	0.0500	---	98	47-136%	---	---	
Heptachlor epoxide	0.0485	---	0.00200	mg/kg wet	1	0.0500	---	97	52-136%	---	---	
Methoxychlor	0.0530	---	0.00600	mg/kg wet	1	0.0500	---	106	52-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 86 %*	*Limits: 42-129 %*			*Dilution: 1x*					
Decachlorobiphenyl (Surr)			*107 %*	*55-130 %*			*"*					
Duplicate (25D1115-DUP1)			Prepared: 04/22/25 10:36	Analyzed: 05/02/25 15:00								**C-05, PRO**
QC Source Sample: COMP-0.0-0.5 (A5D1452-02RE1)												
EPA 8081B												
Aldrin	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
alpha-BHC	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
beta-BHC	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
delta-BHC	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
gamma-BHC (Lindane)	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
cis-Chlordane	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
trans-Chlordane	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
4,4'-DDD	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
4,4'-DDE	**0.533**	---	0.0175	mg/kg dry	10	---	0.477	---	---	11	30%	
4,4'-DDT	**0.112**	---	0.0175	mg/kg dry	10	---	0.0843	---	---	28	30%	
Dieldrin	**0.0367**	---	0.0175	mg/kg dry	10	---	0.0313	---	---	16	30%	
Endosulfan I	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Endosulfan II	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Endosulfan sulfate	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	

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Darwin Thomas, Business Development Director

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D1115 - EPA 3546/3640A (GPC)							**Soil**					
Duplicate (25D1115-DUP1)			Prepared: 04/22/25 10:36 Analyzed: 05/02/25 15:00									**C-05, PRO**
QC Source Sample: COMP-0.0-0.5 (A5D1452-02RE1)												
Endrin	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Endrin aldehyde	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Endrin ketone	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Heptachlor	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Heptachlor epoxide	ND	---	0.0175	mg/kg dry	10	---	ND	---	---	---	30%	
Methoxychlor	ND	---	0.0526	mg/kg dry	10	---	ND	---	---	---	30%	
Chlordane (Technical)	ND	---	0.526	mg/kg dry	10	---	ND	---	---	---	30%	
Toxaphene (Total)	ND	---	0.526	mg/kg dry	10	---	ND	---	---	---	30%	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 86 %*	*Limits: 42-129 %*			*Dilution: 10x*					
Decachlorobiphenyl (Surr)			*122 %*	*55-130 %*			*"*					
Matrix Spike (25D1115-MS1)			Prepared: 04/22/25 10:36 Analyzed: 05/02/25 17:10									**C-05**
QC Source Sample: Non-SDG (A5D1617-15RE1)												
EPA 8081B												
Aldrin	0.0491	---	0.00247	mg/kg dry	1	0.0618	ND	79	45-136%	---	---	
alpha-BHC	0.0510	---	0.00247	mg/kg dry	1	0.0618	ND	82	45-137%	---	---	
beta-BHC	0.0531	---	0.00247	mg/kg dry	1	0.0618	ND	86	50-136%	---	---	
delta-BHC	0.0507	---	0.00247	mg/kg dry	1	0.0618	ND	82	47-139%	---	---	
gamma-BHC (Lindane)	0.0521	---	0.00247	mg/kg dry	1	0.0618	ND	84	49-135%	---	---	
cis-Chlordane	0.0547	---	0.00247	mg/kg dry	1	0.0618	ND	88	54-133%	---	---	
trans-Chlordane	0.0539	---	0.00247	mg/kg dry	1	0.0618	ND	87	53-135%	---	---	
4,4'-DDD	0.0588	---	0.00247	mg/kg dry	1	0.0618	ND	95	56-139%	---	---	
4,4'-DDE	0.0576	---	0.00247	mg/kg dry	1	0.0618	ND	93	56-134%	---	---	
4,4'-DDT	0.0645	---	0.00247	mg/kg dry	1	0.0618	ND	104	50-141%	---	---	
Dieldrin	0.0583	---	0.00247	mg/kg dry	1	0.0618	ND	94	56-136%	---	---	
Endosulfan I	0.0574	---	0.00247	mg/kg dry	1	0.0618	ND	93	53-132%	---	---	
Endosulfan II	0.0608	---	0.00247	mg/kg dry	1	0.0618	ND	98	53-134%	---	---	
Endosulfan sulfate	0.0582	---	0.00247	mg/kg dry	1	0.0618	ND	94	55-136%	---	---	
Endrin	0.0638	---	0.00247	mg/kg dry	1	0.0618	ND	103	57-140%	---	---	
Endrin aldehyde	0.0558	---	0.00247	mg/kg dry	1	0.0618	ND	90	35-137%	---	---	
Endrin ketone	0.0625	---	0.00247	mg/kg dry	1	0.0618	ND	101	55-136%	---	---	
Heptachlor	0.0565	---	0.00247	mg/kg dry	1	0.0618	ND	91	47-136%	---	---	
Heptachlor epoxide	0.0555	---	0.00247	mg/kg dry	1	0.0618	ND	90	52-136%	---	---	

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organochlorine Pesticides by EPA 8081B

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D1115 - EPA 3546/3640A (GPC)							**Soil**					
Matrix Spike (25D1115-MS1)			Prepared: 04/22/25 10:36		Analyzed: 05/02/25 17:10							**C-05**
QC Source Sample: Non-SDG (A5D1617-15RE1)												
Methoxychlor	0.0665	---	0.00742	mg/kg dry	1	0.0618	ND	108	52-143%	---	---	
Surr: 2,4,5,6-TCMX (Surr)			*Recovery: 77 %*		*Limits: 42-129 %*			*Dilution: 1x*				
Decachlorobiphenyl (Surr)			*99 %*		*55-130 %*			*"*				

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Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0927 - EPA 3546							**Soil**					
Blank (25D0927-BLK1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 12:12							
EPA 8270E OPPs												
Azinphos methyl (Guthion)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Chlorpyrifos	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Coumaphos	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Demeton O	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Demeton S	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Diazinon	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Dichlorvos	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Dimethoate	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Disulfoton	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
EPN	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Ethoprop	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Fensulfothion	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Fenthion	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Malathion	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Merphos	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Methyl parathion	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Mevinphos (Phosdrin)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Monocrotophos	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Naled (Dibrom)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Parathion, ethyl	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Phorate	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Ronnel (Fenchlorphos)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Sulfotep	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Sulprofos (Bolstar)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
TEPP	ND	---	0.200	mg/kg wet	1	---	---	---	---	---	---	
Tetrachlorvinphos (Rabon)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Tokuthion (Prothiofos)	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Trichloronate	ND	---	0.0500	mg/kg wet	1	---	---	---	---	---	---	
Surr: Tributyl phosphate (Surr)			*Recovery: 63 %*		*Limits: 10-136 %*			*Dilution: 1x*				
Triphenyl phosphate (Surr)			*77 %*		*34-121 %*			*"*				
LCS (25D0927-BS1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 12:46							
EPA 8270E OPPs												

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0927 - EPA 3546							Soil					
LCS (25D0927-BS1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 12:46							
Azinphos methyl (Guthion)	0.371	---	0.0500	mg/kg wet	1	0.400	---	93	38-156%	---	---	
Chlorpyrifos	0.369	---	0.0500	mg/kg wet	1	0.400	---	92	47-140%	---	---	
Coumaphos	0.378	---	0.0500	mg/kg wet	1	0.400	---	95	37-160%	---	---	
Demeton O	0.157	---	0.0500	mg/kg wet	1	0.184	---	85	66-127%	---	---	
Demeton S	0.175	---	0.0500	mg/kg wet	1	0.194	---	90	70-121%	---	---	
Diazinon	0.371	---	0.0500	mg/kg wet	1	0.400	---	93	42-134%	---	---	
Dichlorvos	0.377	---	0.0500	mg/kg wet	1	0.400	---	94	39-142%	---	---	
Dimethoate	0.371	---	0.0500	mg/kg wet	1	0.400	---	93	16-139%	---	---	
Disulfoton	0.370	---	0.0500	mg/kg wet	1	0.400	---	93	28-145%	---	---	
EPN	0.383	---	0.0500	mg/kg wet	1	0.400	---	96	44-137%	---	---	
Ethoprop	0.350	---	0.0500	mg/kg wet	1	0.400	---	88	47-128%	---	---	
Fensulfothion	0.332	---	0.0500	mg/kg wet	1	0.400	---	83	27-147%	---	---	
Fenthion	0.365	---	0.0500	mg/kg wet	1	0.400	---	91	44-134%	---	---	
Malathion	0.360	---	0.0500	mg/kg wet	1	0.400	---	90	46-137%	---	---	
Merphos	0.366	---	0.0500	mg/kg wet	1	0.400	---	91	66-131%	---	---	
Methyl parathion	0.389	---	0.0500	mg/kg wet	1	0.400	---	97	49-138%	---	---	
Mevinphos (Phosdrin)	0.354	---	0.0500	mg/kg wet	1	0.400	---	89	12-176%	---	---	
Monocrotophos	0.381	---	0.0500	mg/kg wet	1	0.400	---	95	10-153%	---	---	
Naled (Dibrom)	0.359	---	0.0500	mg/kg wet	1	0.400	---	90	10-174%	---	---	
Parathion, ethyl	0.382	---	0.0500	mg/kg wet	1	0.400	---	96	50-139%	---	---	
Phorate	0.369	---	0.0500	mg/kg wet	1	0.400	---	92	23-142%	---	---	
Ronnel (Fenchlorphos)	0.358	---	0.0500	mg/kg wet	1	0.400	---	90	45-138%	---	---	
Sulfotep	0.359	---	0.0500	mg/kg wet	1	0.400	---	90	52-126%	---	---	
Sulprofos (Bolstar)	0.365	---	0.0500	mg/kg wet	1	0.400	---	91	48-139%	---	---	
TEPP	0.236	---	0.200	mg/kg wet	1	0.400	---	59	16-126%	---	---	
Tetrachlorvinphos (Rabon)	0.365	---	0.0500	mg/kg wet	1	0.400	---	91	54-129%	---	---	
Tokuthion (Prothiofos)	0.362	---	0.0500	mg/kg wet	1	0.400	---	90	45-136%	---	---	
Trichloronate	0.367	---	0.0500	mg/kg wet	1	0.400	---	92	37-140%	---	---	
Surr: Tributyl phosphate (Surr)			*Recovery: 82 %*		*Limits: 10-136 %*				*Dilution: 1x*			
Triphenyl phosphate (Surr)			*90 %*		*34-121 %*				*"*			
Duplicate (25D0927-DUP1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 13:59							**PRO**

QC Source Sample: COMP-0.0-0.5 (A5D1452-02)

EPA 8270E OPPs

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Darwin Thomas, Business Development Director

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0927 - EPA 3546							**Soil**					
Duplicate (25D0927-DUP1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 13:59							**PRO**
QC Source Sample: COMP-0.0-0.5 (A5D1452-02)												
Azinphos methyl (Guthion)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Chlorpyrifos	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Coumaphos	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Demeton O	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Demeton S	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Diazinon	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Dichlorvos	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Dimethoate	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Disulfoton	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
EPN	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Ethoprop	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Fensulfothion	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Fenthion	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Malathion	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Merphos	ND	---	0.133	mg/kg dry	1	---	ND	---	---	---	30%	R-02
Methyl parathion	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Mevinphos (Phosdrin)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Monocrotophos	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Naled (Dibrom)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Parathion, ethyl	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Phorate	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Ronnel (Fenchlorphos)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Sulfotep	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Sulprofos (Bolstar)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
TEPP	ND	---	0.186	mg/kg dry	1	---	ND	---	---	---	30%	
Tetrachlorvinphos (Rabon)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Tokuthion (Prothiofos)	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Trichloronate	ND	---	0.0464	mg/kg dry	1	---	ND	---	---	---	30%	
Surr: Tributyl phosphate (Surr)			*Recovery: 19 %*		*Limits: 10-136 %*			*Dilution: 1x*				
Triphenyl phosphate (Surr)			*44 %*		*34-121 %*			*"*				
Matrix Spike (25D0927-MS1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 15:11							**PRO**
QC Source Sample: Non-SDG (A5D1456-38)												

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ORELAP ID: **OR100062**

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0927 - EPA 3546							**Soil**					
Matrix Spike (25D0927-MS1)			Prepared: 04/23/25 08:17		Analyzed: 04/23/25 15:11							**PRO**
QC Source Sample: Non-SDG (A5D1456-38)												
EPA 8270E OPPs												
Azinphos methyl (Guthion)	0.265	---	0.0454	mg/kg dry	1	0.364	ND	73	38-156%	---	---	
Chlorpyrifos	0.262	---	0.0454	mg/kg dry	1	0.364	ND	72	47-140%	---	---	
Coumaphos	0.348	---	0.0454	mg/kg dry	1	0.364	ND	96	37-160%	---	---	
Demeton O	0.106	---	0.0454	mg/kg dry	1	0.167	ND	**63**	**66-127%**	---	---	Q-01
Demeton S	ND	---	0.0454	mg/kg dry	1	0.176	ND	**22**	**70-121%**	---	---	Q-01
Diazinon	ND	---	0.0454	mg/kg dry	1	0.364	ND		**42-134%**	---	---	Q-01
Dichlorvos	0.0606	---	0.0454	mg/kg dry	1	0.364	ND	**17**	**39-142%**	---	---	Q-01
Dimethoate	0.0680	---	0.0454	mg/kg dry	1	0.364	ND	19	16-139%	---	---	
Disulfoton	0.311	---	0.0454	mg/kg dry	1	0.364	ND	86	28-145%	---	---	
EPN	0.382	---	0.0454	mg/kg dry	1	0.364	ND	105	44-137%	---	---	
Ethoprop	0.0983	---	0.0454	mg/kg dry	1	0.364	ND	**27**	**47-128%**	---	---	Q-01
Fensulfothion	0.0742	---	0.0454	mg/kg dry	1	0.364	ND	**20**	**27-147%**	---	---	Q-01
Fenthion	0.293	---	0.0454	mg/kg dry	1	0.364	ND	81	44-134%	---	---	
Malathion	0.239	---	0.0454	mg/kg dry	1	0.364	ND	66	46-137%	---	---	
Merphos	0.238	---	0.0454	mg/kg dry	1	0.364	ND	**65**	**66-131%**	---	---	Q-01
Methyl parathion	0.328	---	0.0454	mg/kg dry	1	0.364	ND	90	49-138%	---	---	
Mevinphos (Phosdrin)	ND	---	0.0454	mg/kg dry	1	0.364	ND	**10**	**12-176%**	---	---	Q-01
Monocrotophos	ND	---	0.0454	mg/kg dry	1	0.364	ND	**7**	**10-153%**	---	---	Q-01
Naled (Dibrom)	ND	---	0.0454	mg/kg dry	1	0.364	ND		**10-174%**	---	---	Q-01
Parathion, ethyl	0.332	---	0.0454	mg/kg dry	1	0.364	ND	91	50-139%	---	---	
Phorate	0.311	---	0.0454	mg/kg dry	1	0.364	ND	85	23-142%	---	---	
Ronnel (Fenchlorphos)	0.291	---	0.0454	mg/kg dry	1	0.364	ND	80	45-138%	---	---	
Sulfotep	0.125	---	0.0454	mg/kg dry	1	0.364	ND	**34**	**52-126%**	---	---	Q-01
Sulprofos (Bolstar)	0.318	---	0.0454	mg/kg dry	1	0.364	ND	87	48-139%	---	---	
TEPP	ND	---	0.182	mg/kg dry	1	0.364	ND		**16-126%**	---	---	Q-01
Tetrachlorvinphos (Rabon)	0.146	---	0.0454	mg/kg dry	1	0.364	ND	**40**	**54-129%**	---	---	Q-01
Tokuthion (Prothiofos)	0.320	---	0.0454	mg/kg dry	1	0.364	ND	88	45-136%	---	---	
Trichloronate	0.302	---	0.0454	mg/kg dry	1	0.364	ND	83	37-140%	---	---	
Surr: Tributyl phosphate (Surr)			*Recovery: 21 %*		*Limits: 10-136 %*				*Dilution: 1x*			
Triphenyl phosphate (Surr)			*54 %*		*34-121 %*				*"*			

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ORELAP ID: OR100062

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: Foothill-Medford Water Project	
12210 Antioch Road	Project Number: AEC2025-07	Report ID:
White City, OR 97503	Project Manager: Jonathan Williams	A5D1452 - 05 08 25 0729

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0867 - EPA 3051A							Soil					
Blank (25D0867-BLK1)			Prepared: 04/22/25 07:47 Analyzed: 04/22/25 20:01									
EPA 6020B												
Antimony	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Arsenic	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Barium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Beryllium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Cadmium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Chromium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Cobalt	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Copper	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Lead	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Mercury	ND	---	0.0800	mg/kg wet	10	---	---	---	---	---	---	
Molybdenum	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Nickel	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Selenium	ND	---	1.00	mg/kg wet	10	---	---	---	---	---	---	
Silver	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Thallium	ND	---	0.200	mg/kg wet	10	---	---	---	---	---	---	
Vanadium	ND	---	2.00	mg/kg wet	10	---	---	---	---	---	---	
Zinc	ND	---	4.00	mg/kg wet	10	---	---	---	---	---	---	
LCS (25D0867-BS1)			Prepared: 04/22/25 07:47 Analyzed: 04/22/25 20:12									
EPA 6020B												
Antimony	26.3	---	1.00	mg/kg wet	10	25.0	---	105	80-120%	---	---	
Arsenic	49.0	---	1.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Barium	50.9	---	1.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Beryllium	24.5	---	0.200	mg/kg wet	10	25.0	---	98	80-120%	---	---	
Cadmium	49.4	---	0.200	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Chromium	50.9	---	1.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Cobalt	49.6	---	1.00	mg/kg wet	10	50.0	---	99	80-120%	---	---	
Copper	48.5	---	2.00	mg/kg wet	10	50.0	---	97	80-120%	---	---	
Lead	50.3	---	0.200	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Mercury	0.961	---	0.0800	mg/kg wet	10	1.00	---	96	80-120%	---	---	
Molybdenum	25.1	---	1.00	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Nickel	51.2	---	2.00	mg/kg wet	10	50.0	---	102	80-120%	---	---	
Selenium	24.8	---	1.00	mg/kg wet	10	25.0	---	99	80-120%	---	---	

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0867 - EPA 3051A							**Soil**					
LCS (25D0867-BS1)			Prepared: 04/22/25 07:47		Analyzed: 04/22/25 20:12							
Silver	25.0	---	0.200	mg/kg wet	10	25.0	---	100	80-120%	---	---	
Thallium	24.0	---	0.200	mg/kg wet	10	25.0	---	96	80-120%	---	---	
Vanadium	49.0	---	2.00	mg/kg wet	10	50.0	---	98	80-120%	---	---	
Zinc	50.5	---	4.00	mg/kg wet	10	50.0	---	101	80-120%	---	---	
Duplicate (25D0867-DUP1)			Prepared: 04/22/25 07:47		Analyzed: 04/22/25 20:23							
QC Source Sample: COMP-0.0-0.5 (A5D1452-02)												
EPA 6020B												
Antimony	ND	---	1.12	mg/kg dry	10	---	ND	---	---	---	20%	PRO
Arsenic	**57.9**	---	1.12	mg/kg dry	10	---	56.0	---	---	3	20%	PRO
Barium	**212**	---	1.12	mg/kg dry	10	---	199	---	---	6	20%	PRO
Beryllium	**0.928**	---	0.224	mg/kg dry	10	---	0.949	---	---	2	20%	PRO
Cadmium	ND	---	0.224	mg/kg dry	10	---	0.194	---	---	***	20%	PRO
Chromium	**30.3**	---	1.12	mg/kg dry	10	---	28.6	---	---	6	20%	PRO
Cobalt	**16.4**	---	1.12	mg/kg dry	10	---	16.8	---	---	2	20%	PRO
Copper	**45.0**	---	2.24	mg/kg dry	10	---	44.2	---	---	2	20%	PRO
Lead	**238**	---	0.224	mg/kg dry	10	---	246	---	---	3	20%	PRO
Mercury	ND	---	0.0896	mg/kg dry	10	---	ND	---	---	---	20%	PRO
Molybdenum	ND	---	1.12	mg/kg dry	10	---	ND	---	---	---	20%	PRO
Nickel	**26.7**	---	2.24	mg/kg dry	10	---	25.7	---	---	4	20%	PRO
Selenium	ND	---	1.12	mg/kg dry	10	---	ND	---	---	---	20%	PRO
Silver	ND	---	0.224	mg/kg dry	10	---	ND	---	---	---	20%	PRO
Thallium	ND	---	0.224	mg/kg dry	10	---	0.249	---	---	***	20%	PRO
Vanadium	**69.3**	---	2.24	mg/kg dry	10	---	66.7	---	---	4	20%	PRO
Zinc	**79.5**	---	4.48	mg/kg dry	10	---	77.7	---	---	2	20%	PRO
Matrix Spike (25D0867-MS1)			Prepared: 04/22/25 07:47		Analyzed: 04/22/25 20:28							
QC Source Sample: COMP-0.0-0.5 (A5D1452-02)												
EPA 6020B												
Antimony	19.9	---	1.06	mg/kg dry	10	26.4	ND	75	75-125%	---	---	PRO
Arsenic	111	---	1.06	mg/kg dry	10	52.8	56.0	104	75-125%	---	---	PRO
Barium	274	---	1.06	mg/kg dry	10	52.8	199	**142**	**75-125%**	---	---	PRO,Q-65
Beryllium	27.0	---	0.211	mg/kg dry	10	26.4	0.949	99	75-125%	---	---	PRO
Cadmium	52.1	---	0.211	mg/kg dry	10	52.8	0.194	98	75-125%	---	---	PRO

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Darwin Thomas, Business Development Director

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ORELAP ID: OR100062

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALITY CONTROL (QC) SAMPLE RESULTS

Total Metals by EPA 6020B (ICPMS)

Analyte	Result	Detection Limit	Reporting Limit	Units	Dilution	Spike Amount	Source Result	% REC	% REC Limits	RPD	RPD Limit	Notes
Batch 25D0867 - EPA 3051A							**Soil**					
Matrix Spike (25D0867-MS1)			Prepared: 04/22/25 07:47		Analyzed: 04/22/25 20:28							
QC Source Sample: COMP-0.0-0.5 (A5D1452-02)												
Chromium	93.5	---	1.06	mg/kg dry	10	52.8	28.6	123	75-125%	---	---	PRO
Cobalt	67.5	---	1.06	mg/kg dry	10	52.8	16.8	96	75-125%	---	---	PRO
Copper	96.1	---	2.11	mg/kg dry	10	52.8	44.2	98	75-125%	---	---	PRO
Lead	280	---	0.211	mg/kg dry	10	52.8	246	**65**	**75-125%**	---	---	PRO,Q-65
Mercury	1.01	---	0.0845	mg/kg dry	10	1.06	ND	95	75-125%	---	---	PRO
Molybdenum	23.8	---	1.06	mg/kg dry	10	26.4	ND	90	75-125%	---	---	PRO
Nickel	81.8	---	2.11	mg/kg dry	10	52.8	25.7	106	75-125%	---	---	PRO
Selenium	24.8	---	1.06	mg/kg dry	10	26.4	ND	94	75-125%	---	---	PRO
Silver	25.3	---	0.211	mg/kg dry	10	26.4	ND	96	75-125%	---	---	PRO
Thallium	24.1	---	0.211	mg/kg dry	10	26.4	0.249	90	75-125%	---	---	PRO
Vanadium	130	---	2.11	mg/kg dry	10	52.8	66.7	120	75-125%	---	---	PRO
Zinc	141	---	4.23	mg/kg dry	10	52.8	77.7	119	75-125%	---	---	PRO

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Darwin Thomas, Business Development Director

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

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

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 25D1008 - Dry Weight Prep (EPA 8000D)							**Soil**					
Duplicate (25D1008-DUP1)			Prepared: 04/24/25 11:31		Analyzed: 04/25/25 05:07							
QC Source Sample: Non-SDG (A5D1663-01)												
% Solids	**78.4**	---	1.00	%	1	---	78.4	---	---	0.05	10%	
Duplicate (25D1008-DUP2)			Prepared: 04/24/25 11:31		Analyzed: 04/25/25 05:07							
QC Source Sample: Non-SDG (A5D1674-01)												
% Solids	**88.3**	---	1.00	%	1	---	88.8	---	---	0.6	10%	
Duplicate (25D1008-DUP3)			Prepared: 04/24/25 11:31		Analyzed: 04/25/25 05:07							**PRO**
QC Source Sample: COMP-0.0-0.5 (A5D1452-02)												
EPA 8000D												
% Solids	**96.1**	---	1.00	%	1	---	96.0	---	---	0.1	10%	
Duplicate (25D1008-DUP4)			Prepared: 04/24/25 17:54		Analyzed: 04/25/25 05:07							
QC Source Sample: Non-SDG (A5D1785-01)												
% Solids	**87.9**	---	1.00	%	1	---	87.9	---	---	0.05	10%	
Duplicate (25D1008-DUP5)			Prepared: 04/24/25 17:54		Analyzed: 04/25/25 05:07							
QC Source Sample: Non-SDG (A5D1788-02)												
% Solids	**88.8**	---	1.00	%	1	---	88.4	---	---	0.4	10%	
Duplicate (25D1008-DUP6)			Prepared: 04/24/25 17:54		Analyzed: 04/25/25 05:07							
QC Source Sample: Non-SDG (A5D1792-02)												
% Solids	**90.1**	---	1.00	%	1	---	90.6	---	---	0.6	10%	

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

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Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

SAMPLE PREPARATION INFORMATION

Organochlorine Pesticides by EPA 8081B

Prep: EPA 3546/3640A (GPC)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25D1115							
A5D1452-02RE1	Soil	EPA 8081B	04/10/25 12:30	04/22/25 10:36	11.71g/10mL	10g/5mL	1.71
A5D1452-04RE1	Soil	EPA 8081B	04/10/25 12:35	04/22/25 10:36	11.55g/10mL	10g/5mL	1.73
A5D1452-06RE1	Soil	EPA 8081B	04/10/25 12:40	04/22/25 10:36	11.44g/10mL	10g/5mL	1.75
A5D1452-08RE1	Soil	EPA 8081B	04/10/25 12:45	04/22/25 10:36	11.27g/10mL	10g/5mL	1.77
A5D1452-10RE1	Soil	EPA 8081B	04/10/25 12:50	04/22/25 10:36	11.45g/10mL	10g/5mL	1.75

Organophosphorus Pesticides (OPPs) by EPA 8270E (GC/MS)

Prep: EPA 3546

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25D0927							
A5D1452-02	Soil	EPA 8270E OPPs	04/10/25 12:30	04/23/25 08:17	11.68g/5mL	10g/5mL	0.86
A5D1452-04	Soil	EPA 8270E OPPs	04/10/25 12:35	04/23/25 08:17	11.05g/5mL	10g/5mL	0.91
A5D1452-06	Soil	EPA 8270E OPPs	04/10/25 12:40	04/23/25 08:17	11.23g/5mL	10g/5mL	0.89
A5D1452-08	Soil	EPA 8270E OPPs	04/10/25 12:45	04/23/25 08:17	11.54g/5mL	10g/5mL	0.87
A5D1452-10	Soil	EPA 8270E OPPs	04/10/25 12:50	04/23/25 08:17	11.02g/5mL	10g/5mL	0.91

Total Metals by EPA 6020B (ICPMS)

Prep: EPA 3051A

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25D0867							
A5D1452-02	Soil	EPA 6020B	04/10/25 12:30	04/22/25 07:47	0.475g/50mL	0.5g/50mL	1.05
A5D1452-04	Soil	EPA 6020B	04/10/25 12:35	04/22/25 07:47	0.466g/50mL	0.5g/50mL	1.07
A5D1452-06	Soil	EPA 6020B	04/10/25 12:40	04/22/25 07:47	0.451g/50mL	0.5g/50mL	1.11
A5D1452-08	Soil	EPA 6020B	04/10/25 12:45	04/22/25 07:47	0.468g/50mL	0.5g/50mL	1.07
A5D1452-10	Soil	EPA 6020B	04/10/25 12:50	04/22/25 07:47	0.473g/50mL	0.5g/50mL	1.06

Percent Dry Weight

Prep: Dry Weight Prep (EPA 8000D)

Lab Number	Matrix	Method	Sampled	Prepared	Sample Initial/Final	Default Initial/Final	RL Prep Factor
Batch: 25D1008							
A5D1452-02	Soil	EPA 8000D	04/10/25 12:30	04/24/25 11:31	1g	1g	1.00
A5D1452-04	Soil	EPA 8000D	04/10/25 12:35	04/24/25 11:31	1g	1g	1.00
A5D1452-06	Soil	EPA 8000D	04/10/25 12:40	04/24/25 11:31	1g	1g	1.00

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ORELAP ID: **OR100062**

ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

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
A5D1452-08	Soil	EPA 8000D	04/10/25 12:45	04/24/25 11:31	1g	1g	1.00
A5D1452-10	Soil	EPA 8000D	04/10/25 12:50	04/24/25 11:31	1g	1g	1.00

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White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

QUALIFIER DEFINITIONS

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

Apex Laboratories

C-05	Extract has undergone a GPC (Gel-Permeation Chromatography) cleanup per EPA 3640A. Reporting levels may be raised due to dilution necessary for cleanup. Sample Final Volume includes the GPC dilution factor, see the Prep page for details.
PRO	Sample has undergone sample processing prior to extraction and analysis.
Q-01	Spike recovery and/or RPD is outside acceptance limits.
Q-65	Spike recovery is estimated due to the high analyte concentration of the source sample.
R-02	The Reporting Limit for this analyte has been raised to account for interference from coeluting organic compounds present in the sample.
S-03	Sample re-extract, or the analysis of an associated Batch QC sample, confirms surrogate failure due to sample matrix effect.

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REPORTING NOTES AND CONVENTIONS:

Abbreviations:

DET Analyte DETECTED at or above the detection or reporting limit.

ND Analyte NOT DETECTED at or above the detection or reporting limit.

NR Result Not Reported

RPD Relative Percent Difference. RPDs for Matrix Spikes and Matrix Spike Duplicates are based on concentration, not recovery.

Detection Limits: Limit of Detection (LOD)

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).

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REPORTING NOTES AND CONVENTIONS (Cont.):

Blanks:

Standard practice is to evaluate the results from Blank QC Samples down to a level equal to one half of the Reporting Limit (RL).
Blank results for gravimetric analyses are evaluated to the Reporting Level, not to half of the Reporting Level.
-For Blank hits falling between ½ the RL and the RL (J flagged hits), the associated sample and QC data will receive a 'B-02' qualifier.
-For Blank hits above the RL, the associated sample and QC data will receive a 'B' qualifier, per Apex Laboratories' Blank Policy.
For further details, please request a copy of this document.
-Sample results flagged with a 'B' or 'B-02' qualifier are potentially biased high if the sample results are less than ten times the level found in the blank for inorganic analyses, or less than five times the level found in the blank for organic analyses.
'B' and 'B-02' qualifications are only applied to sample results detected above the Reporting Level, if results are not reported to the MDL.

Preparation Notes:

Mixed Matrix Samples:

Water Samples:

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

Soil and Sediment Samples:

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

Sampling and Preservation Notes:

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

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

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

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

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Decanted Samples:

Soils/Sediments:
Unless TCLP analysis is required or there is notification otherwise for a specific project, all Soil and Sediments containing excess water are decanted prior to analysis in order to provide the most representative sample for analysis.

Water Samples:
Water samples containing solids and sediment may need to be decanted in order to eliminate these particulates from the water extractions. In the case of organics extractions, a solvent rinse of the container will not be performed.

Volatiles Soils (5035s)
Samples that are field preserved by 5035 for volatiles are dry weight corrected using the same dry weight corretion as for normal analyses. In the case of decanted samples, the dry weight may be performed on a decanted sample, while the aliquot for 5035 may not have been treated the same way. If this is a concern, please submit separate containers for dry weight analysis for volatiles can be provided.

All samples decanted in the laboratory are noted in this report with the DCNT qualifier indicating the sample was decanted.

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
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LABORATORY ACCREDITATION INFORMATION

ORELAP Certification ID: OR100062 (Primary Accreditation) - EPA ID: OR01039

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

Apex Laboratories

Matrix	Analysis	TNI_ID	Analyte	TNI_ID	Accreditation

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

Secondary Accreditations

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

Subcontract Laboratory Accreditations

Subcontracted data falls outside of Apex Laboratories' Scope of Accreditation.
Please see the Subcontract Laboratory report for full details, or contact your Project Manager for more information.

Field Testing Parameters

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

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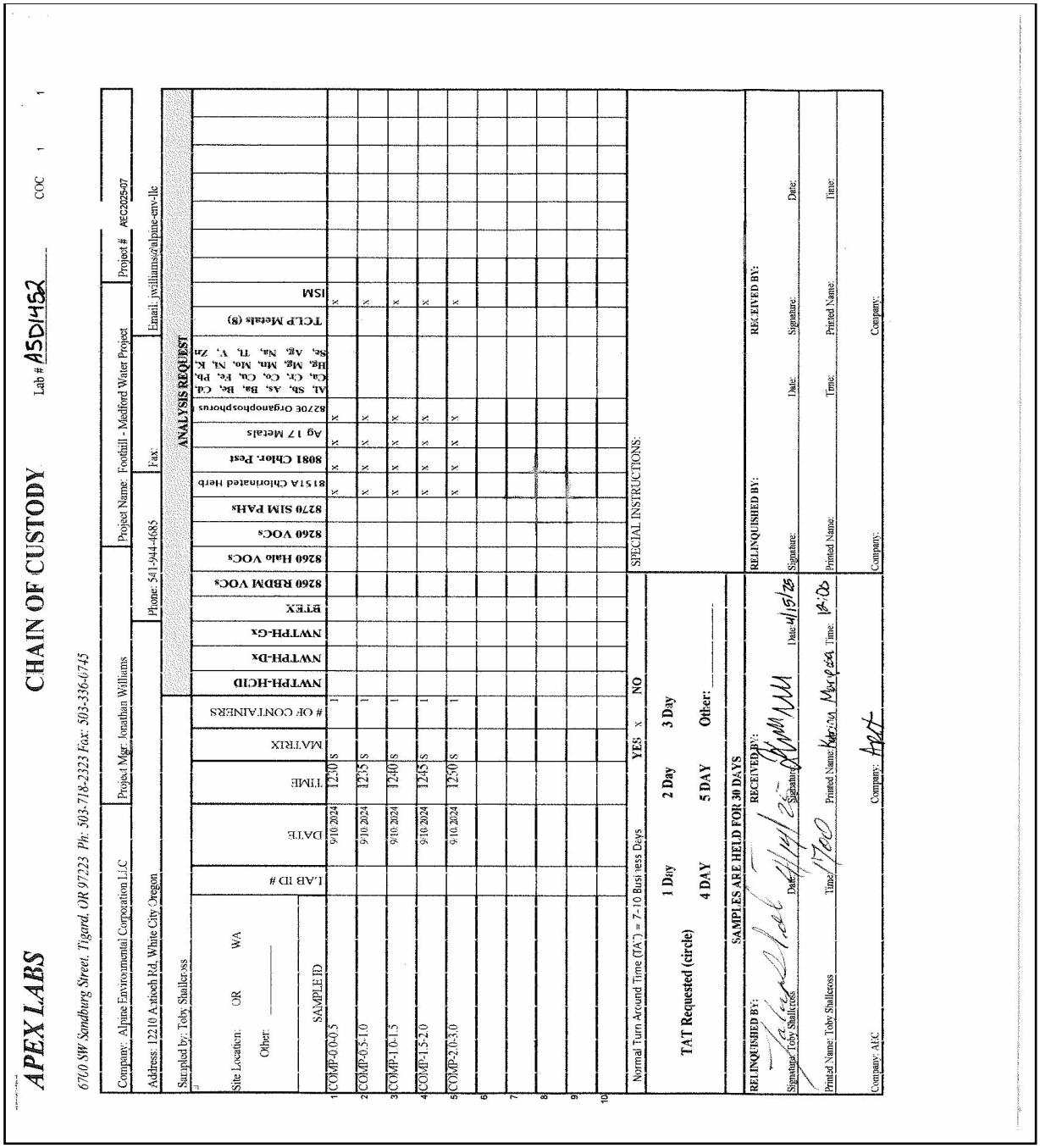

APEX LABS — CHAIN OF CUSTODY — Lab # A5D1452 — COC 1 of 1

6700 SW Sandburg Street. Tigard, OR 97223 Ph: 503-718-2323 Fax: 503-336-0745

Company: Alpine Environmental Corporation LLC — Project Mgr: Jonathan Williams — Project Name: Foothill - Medford Water Project — Project # AEC2025-07

Address: 12210 Antioch Rd. White City Oregon — Phone: 541-944-4685 — Fax: — Email: jwilliams@alpine-env-llc

Sampled By: Toby Shallcross

Site Location: OR WA — Other: _____

ANALYSIS REQUEST

	SAMPLE ID	LAB ID #	DATE	TIME	MATRIX	# OF CONTAINERS	NWTPH-HCID	NWTPH-Dx	NWTPH-Gx	BTEX	8260 RBDM VOCs	8260 Halo VOCs	8260 VOCs	8270 SIM PAHs	8151A Chlorinated Herb	8081 Chlor. Pest	Ag 17 Metals	8270E Organophosphorus	Al, Sb, As, Ba, Be, Cd, Ca, Cr, Co, Cu, Fe, Pb, He, Mg, Mn, Mo, Ni, K, Se, Ag, Na, Tl, V, Zn	TCLP Metals (8)	ISM
1	COMP-0.0-0.5		9/10/2024	12:30	S	1									X	X	X	X		X
2	COMP-0.5-1.0		9/10/2024	12:35	S	1									X	X	X	X		X
3	COMP-1.0-1.5		9/10/2024	12:40	S	1									X	X	X	X		X
4	COMP-1.5-2.0		9/10/2024	12:45	S	1									X	X	X	X		X
5	COMP-2.0-3.0		9/10/2024	12:50	S	1									X	X	X	X		X
6																				
7																				
8																				
9																				
10																				

Normal Turn Around Time (TAT) = 7–10 Business Days — YES X — NO

SPECIAL INSTRUCTIONS:

TAT Requested (circle): 1 Day — 2 Day — 3 Day — 4 DAY — 5 DAY — Other: _____

SAMPLES ARE HELD FOR 30 DAYS

RELINQUISHED BY: — Signature: Toby Shallcross — Date: — Time:

RECEIVED BY: — Signature: — Printed Name: Katrina Mayfield — Date: 4/16/25 — Time: 18:00 — Company: AEC

RELINQUISHED BY: — Printed Name: Toby Shallcross — Time:

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

RELINQUISHED BY: — Signature: — Date: — Time: — Printed Name: — Company:

Apex Laboratories

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ANALYTICAL REPORT

Alpine Environmental Consultants	Project: **Foothill-Medford Water Project**	
12210 Antioch Road	Project Number: **AEC2025-07**	**Report ID:**
White City, OR 97503	Project Manager: **Jonathan Williams**	**A5D1452 - 05 08 25 0729**

APEX LABS COOLER RECEIPT FORM

Client: Alpine Environmental Corporation LLC Element WO#: A5D1452

Project/Project #: Foothill - Medford Water Project / AEC2025-07

Delivery Info:

Date/time received: 4/15/25 @ 12:00 By: KAM

Delivered by: Apex__Client__ESS___FedEx X UPS__Radio___Morgan ___SDS___Evergreen___Other ___

From USDA Regulated Origin? Yes _____ No X

Cooler Inspection Date/time inspected: 4/15/25 @ 12:00 By: KAM

Chain of Custody included? Yes X No _____

Signed/dated by client? Yes X No _____

Contains USDA Reg. Soils? Yes _____ No X Unsure (email RegSoils) _____

	Cooler #1	Cooler #2	Cooler #3	Cooler #4	Cooler #5	Cooler #6	Cooler #7
Temperature (°C)	4.9						
Custody seals? (Y/N)	N						
Received on ice? (Y/N)	Y						
Temp. blanks? (Y/N)	Y						
Ice type: (Gel/Real/Other)	Real						
Condition (In/Out):	In						

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

Green dots applied to out of temperature samples? Yes/No

Out of temperature samples form initiated? Yes/No

Sample Inspection: Date/time inspected: 4/15/25 @ 12:31 By: KAM

All samples intact? Yes X No ___ Comments: _____

KAM 4/15

Bottle labels/COCs agree? Yes X No X Comments: COC reads 0 as 9/10/24, KAM 4/15 conts read 4/10/25.

COC/container discrepancies form initiated? Yes ___ No X

Containers/volumes received appropriate for analysis? Yes X No ___ Comments: _____

Do VOA vials have visible headspace? Yes ___ No ___ NA X

Comments _____

Water samples: pH checked: Yes___No___NA X pH appropriate? Yes___No___NA X pH ID: _____

Comments: _____

KAM 4/15 ~~28~~ 0875 6380 6290

Labeled by: KAM Witness: Cooler Inspected by: KAM

Form Y-003 R-02

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ANALYTICAL REPORT

PREPARED FOR

Attn: Mr. Darwin Thomas
Apex Laboratories LLC
6700 SW Sandburg St.
Tigard, Oregon 97223

Generated 4/23/2025 11:08:13 PM

JOB DESCRIPTION

A5D1452

JOB NUMBER

280-206400-1

Eurofins Denver
4955 Yarrow Street
Arvada CO 80002

See page two for job notes and contact information.

Eurofins Denver

Job Notes

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Authorization

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Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
☼	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
CNF	Contains No Free Liquid
DER	Duplicate Error Ratio (normalized absolute difference)
Dil Fac	Dilution Factor
DL	Detection Limit (DoD/DOE)
DL, RA, RE, IN	Indicates a Dilution, Re-analysis, Re-extraction, or additional Initial metals/anion analysis of the sample
DLC	Decision Level Concentration (Radiochemistry)
EDL	Estimated Detection Limit (Dioxin)
LOD	Limit of Detection (DoD/DOE)
LOQ	Limit of Quantitation (DoD/DOE)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
QC	Quality Control
RER	Relative Error Ratio (Radiochemistry)
RL	Reporting Limit or Requested Limit (Radiochemistry)
RPD	Relative Percent Difference, a measure of the relative difference between two points
TEF	Toxicity Equivalent Factor (Dioxin)
TEQ	Toxicity Equivalent Quotient (Dioxin)
TNTC	Too Numerous To Count

Job ID: 280-206400-1 Eurofins Denver

Job Narrative
280-206400-1

Analytical test results meet all requirements of the associated regulatory program listed on the Accreditation/Certification Summary Page unless otherwise noted under the individual analysis. Data qualifiers and/or narrative comments are included to explain any exceptions, if applicable.

- Matrix QC may not be reported if insufficient sample is provided or site-specific QC samples were not submitted. In these situations, to demonstrate precision and accuracy at a batch level, a LCS/LCSD may be performed, unless otherwise specified in the method.
- Surrogate and/or isotope dilution analyte recoveries (if applicable) which are outside of the QC window are confirmed unless attributed to a dilution or otherwise noted in the narrative.

Regulated compliance samples (e.g. SDWA, NPDES) must comply with the associated agency requirements/permits.

Receipt
The samples were received on 4/22/2025 9:50 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 5.8°C.

Method 8321B - Herbicides (LC/MS)
Samples COMP-0.0-0.5 (280-206400-1), COMP-0.5-1.0 (280-206400-2), COMP-1.0-1.5 (280-206400-3), COMP-1.5-2.0 (280-206400-4) and COMP-2.0-3.0 (280-206400-5) were analyzed for Herbicides (LC/MS). The samples were prepared on 4/22/2025 and analyzed on 4/22/2025 and 4/23/2025.

Sample COMP-0.0-0.5 (280-206400-1)[5x] required dilution prior to analysis. The reporting limits have been adjusted accordingly.

The following samples was diluted due to visual characteristics , such as color, odor, appearance, viscosity, etc.>>: COMP-0.0-0.5 (280-206400-1), (280-206274-C-2-B), (280-206274-C-2-C MS) and (280-206274-C-2-D MSD). Elevated reporting limits (RL) are provided.

The continuing calibration verification (CCV) associated with batch 280-692879 recovered above the upper control limit for Silvex (2,4,5-TP). The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are:COMP-0.0-0.5 (280-206400-1), COMP-0.5-1.0 (280-206400-2), COMP-1.0-1.5 (280-206400-3), COMP-1.5-2.0 (280-206400-4), COMP-2.0-3.0 (280-206400-5), (CCV 280-692879/33) and (280-206274-C-2-B).

Method Moisture - Percent Moisture
Samples COMP-0.0-0.5 (280-206400-1), COMP-0.5-1.0 (280-206400-2), COMP-1.0-1.5 (280-206400-3), COMP-1.5-2.0 (280-206400-4) and COMP-2.0-3.0 (280-206400-5) were analyzed for Percent Moisture. The samples were analyzed on 4/22/2025.

Detection Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Client Sample ID: COMP-0.0-0.5 — Lab Sample ID: 280-206400-1

No Detections.

Client Sample ID: COMP-0.5-1.0 — Lab Sample ID: 280-206400-2

No Detections.

Client Sample ID: COMP-1.0-1.5 — Lab Sample ID: 280-206400-3

No Detections.

Client Sample ID: COMP-1.5-2.0 — Lab Sample ID: 280-206400-4

No Detections.

Client Sample ID: COMP-2.0-3.0 — Lab Sample ID: 280-206400-5

No Detections.

This Detection Summary does not include radiochemical test results.

Method Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Method	Method Description	Protocol	Laboratory
8321B	Herbicides (LC/MS)	SW846	EET DEN
Moisture	Percent Moisture	EPA	EET DEN
Auto Shaker	Wrist Action Shaker Extraction Technique	None	EET DEN

Protocol References:

EPA = US Environmental Protection Agency

None = None

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Sample Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
280-206400-1	COMP-0.0-0.5	Solid	04/10/25 12:30	04/22/25 09:50
280-206400-2	COMP-0.5-1.0	Solid	04/10/25 12:35	04/22/25 09:50
280-206400-3	COMP-1.0-1.5	Solid	04/10/25 12:40	04/22/25 09:50
280-206400-4	COMP-1.5-2.0	Solid	04/10/25 12:45	04/22/25 09:50
280-206400-5	COMP-2.0-3.0	Solid	04/10/25 12:50	04/22/25 09:50

Method: SW846 8321B - Herbicides (LC/MS)

Client Sample ID: COMP-0.0-0.5
Date Collected: 04/10/25 12:30
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-1
Matrix: Solid
Percent Solids: 95.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		51	13	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
2,4-D	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
MCPA	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
2,4,5-T	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
Silvex (2,4,5-TP)	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
MCPP	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
Dicamba	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
Dichlorprop	ND		25	6.4	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
Dalapon	ND		51	13	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5
Dinoseb	ND		51	13	ug/Kg	☼	04/22/25 16:15	04/22/25 23:28	5

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*69*		*45 - 130*	*04/22/25 16:15*	*04/22/25 23:28*	*5*

Client Sample ID: COMP-0.5-1.0
Date Collected: 04/10/25 12:35
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-2
Matrix: Solid
Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
2,4-D	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
MCPA	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
2,4,5-T	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
Silvex (2,4,5-TP)	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
MCPP	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
Dicamba	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
Dichlorprop	ND		4.9	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
Dalapon	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1
Dinoseb	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*61*		*45 - 130*	*04/22/25 16:15*	*04/22/25 23:35*	*1*

Client Sample ID: COMP-1.0-1.5
Date Collected: 04/10/25 12:40
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-3
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
2,4-D	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
MCPA	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
2,4,5-T	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
Silvex (2,4,5-TP)	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
MCPP	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
Dicamba	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
Dichlorprop	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
Dalapon	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1
Dinoseb	ND		9.9	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*51*		*45 - 130*	*04/22/25 16:15*	*04/22/25 23:42*	*1*

Method: SW846 8321B - Herbicides (LC/MS)

Client Sample ID: COMP-1.5-2.0
Date Collected: 04/10/25 12:45
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-4
Matrix: Solid
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
2,4-D	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
MCPA	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
2,4,5-T	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
Silvex (2,4,5-TP)	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
MCPP	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
Dicamba	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
Dichlorprop	ND		5.0	1.3	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
Dalapon	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1
Dinoseb	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/22/25 23:48	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*55*		*45 - 130*	*04/22/25 16:15*	*04/22/25 23:48*	*1*

Client Sample ID: COMP-2.0-3.0
Date Collected: 04/10/25 12:50
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-5
Matrix: Solid
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
2,4-D	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
MCPA	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
2,4,5-T	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
Silvex (2,4,5-TP)	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
MCPP	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
Dicamba	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
Dichlorprop	ND		5.0	1.2	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
Dalapon	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1
Dinoseb	ND		10	2.5	ug/Kg	☼	04/22/25 16:15	04/23/25 00:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*65*		*45 - 130*	*04/22/25 16:15*	*04/23/25 00:08*	*1*

General Chemistry

Client Sample ID: COMP-0.0-0.5
Date Collected: 04/10/25 12:30
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-1
Matrix: Solid
Percent Solids: 95.6

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**4.5**		0.1	0.1	%			04/22/25 11:41	1
Percent Solids (EPA Moisture)	**95.6**		0.1	0.1	%			04/22/25 11:41	1

Client Sample ID: COMP-0.5-1.0
Date Collected: 04/10/25 12:35
Date Received: 04/22/25 09:50

Lab Sample ID: 280-206400-2
Matrix: Solid
Percent Solids: 96.4

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	**3.6**		0.1	0.1	%			04/22/25 11:41	1
Percent Solids (EPA Moisture)	**96.4**		0.1	0.1	%			04/22/25 11:41	1

Client Sample Results

Client: Apex Laboratories LLC
Job ID: 280-206400-1
Project/Site: A5D1452

General Chemistry

Client Sample ID: COMP-1.0-1.5
Lab Sample ID: 280-206400-3
Date Collected: 04/10/25 12:40
Matrix: Solid
Date Received: 04/22/25 09:50
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.0		0.1	0.1	%			04/22/25 11:41	1
Percent Solids (EPA Moisture)	98.0		0.1	0.1	%			04/22/25 11:41	1

Client Sample ID: COMP-1.5-2.0
Lab Sample ID: 280-206400-4
Date Collected: 04/10/25 12:45
Matrix: Solid
Date Received: 04/22/25 09:50
Percent Solids: 98.0

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.0		0.1	0.1	%			04/22/25 11:41	1
Percent Solids (EPA Moisture)	98.0		0.1	0.1	%			04/22/25 11:41	1

Client Sample ID: COMP-2.0-3.0
Lab Sample ID: 280-206400-5
Date Collected: 04/10/25 12:50
Matrix: Solid
Date Received: 04/22/25 09:50
Percent Solids: 97.3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Percent Moisture (EPA Moisture)	2.7		0.1	0.1	%			04/22/25 11:41	1
Percent Solids (EPA Moisture)	97.3		0.1	0.1	%			04/22/25 11:41	1

Surrogate Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Method: 8321B - Herbicides (LC/MS)

Matrix: Solid

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)							
		DCPAA							
Lab Sample ID	Client Sample ID	(45-130)							
280-206400-1	COMP-0.0-0.5	69							
280-206400-2	COMP-0.5-1.0	61							
280-206400-3	COMP-1.0-1.5	51							
280-206400-4	COMP-1.5-2.0	55							
280-206400-5	COMP-2.0-3.0	65							
LCS 280-692790/2-A	Lab Control Sample	74							
MB 280-692790/1-A	Method Blank	71							

Surrogate Legend

DCPAA = DCAA (Surr)

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Method: 8321B - Herbicides (LC/MS)

Lab Sample ID: MB 280-692790/1-A
Matrix: Solid
Analysis Batch: 692879

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 692790

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
2,4-DB	ND		10	2.5	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
2,4-D	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
MCPA	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
2,4,5-T	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
Silvex (2,4,5-TP)	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
MCPP	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
Dicamba	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
Dichlorprop	ND		5.0	1.3	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
Dalapon	ND		10	2.5	ug/Kg		04/22/25 16:15	04/22/25 22:42	1
Dinoseb	ND		10	2.5	ug/Kg		04/22/25 16:15	04/22/25 22:42	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
DCAA (Surr)	*71*		*45 - 130*	*04/22/25 16:15*	*04/22/25 22:42*	*1*

Lab Sample ID: LCS 280-692790/2-A
Matrix: Solid
Analysis Batch: 692879

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 692790

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits		
2,4-DB			20.0	15.6		ug/Kg		78	46 - 130		
2,4-D			20.0	16.9		ug/Kg		85	48 - 130		
MCPA			20.0	13.9		ug/Kg		69	54 - 130		
2,4,5-T			20.0	16.8		ug/Kg		84	48 - 131		
Silvex (2,4,5-TP)			20.0	15.0		ug/Kg		75	42 - 130		
MCPP			20.0	14.3		ug/Kg		72	48 - 130		
Dicamba			20.0	14.3		ug/Kg		72	45 - 130		
Dichlorprop			20.0	14.2		ug/Kg		71	45 - 130		
Dalapon			20.0	12.5		ug/Kg		62	25 - 150		
Dinoseb			20.0	10.9		ug/Kg		54	29 - 130		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
DCAA (Surr)	*74*		*45 - 130*

QC Association Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

LCMS

Prep Batch: 692790

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-206400-1	COMP-0.0-0.5	Total/NA	Solid	Auto Shaker	
280-206400-2	COMP-0.5-1.0	Total/NA	Solid	Auto Shaker	
280-206400-3	COMP-1.0-1.5	Total/NA	Solid	Auto Shaker	
280-206400-4	COMP-1.5-2.0	Total/NA	Solid	Auto Shaker	
280-206400-5	COMP-2.0-3.0	Total/NA	Solid	Auto Shaker	
MB 280-692790/1-A	Method Blank	Total/NA	Solid	Auto Shaker	
LCS 280-692790/2-A	Lab Control Sample	Total/NA	Solid	Auto Shaker	

Analysis Batch: 692879

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-206400-1	COMP-0.0-0.5	Total/NA	Solid	8321B	692790
280-206400-2	COMP-0.5-1.0	Total/NA	Solid	8321B	692790
280-206400-3	COMP-1.0-1.5	Total/NA	Solid	8321B	692790
280-206400-4	COMP-1.5-2.0	Total/NA	Solid	8321B	692790
280-206400-5	COMP-2.0-3.0	Total/NA	Solid	8321B	692790
MB 280-692790/1-A	Method Blank	Total/NA	Solid	8321B	692790
LCS 280-692790/2-A	Lab Control Sample	Total/NA	Solid	8321B	692790

General Chemistry

Analysis Batch: 692786

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
280-206400-1	COMP-0.0-0.5	Total/NA	Solid	Moisture	
280-206400-2	COMP-0.5-1.0	Total/NA	Solid	Moisture	
280-206400-3	COMP-1.0-1.5	Total/NA	Solid	Moisture	
280-206400-4	COMP-1.5-2.0	Total/NA	Solid	Moisture	
280-206400-5	COMP-2.0-3.0	Total/NA	Solid	Moisture	

Client Sample ID: COMP-0.0-0.5 — **Lab Sample ID: 280-206400-1**
Date Collected: 04/10/25 12:30 — **Matrix: Solid**
Date Received: 04/22/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			692786	04/22/25 11:41	MLL	EET DEN

Client Sample ID: COMP-0.0-0.5 — **Lab Sample ID: 280-206400-1**
Date Collected: 04/10/25 12:30 — **Matrix: Solid**
Date Received: 04/22/25 09:50 — **Percent Solids: 95.6**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Auto Shaker			10.3 g	10 mL	692790	04/22/25 16:15	GML	EET DEN
Total/NA	Analysis	8321B		5	1 mL	1 mL	692879	04/22/25 23:28	RJC	EET DEN

Client Sample ID: COMP-0.5-1.0 — **Lab Sample ID: 280-206400-2**
Date Collected: 04/10/25 12:35 — **Matrix: Solid**
Date Received: 04/22/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			692786	04/22/25 11:41	MLL	EET DEN

Client Sample ID: COMP-0.5-1.0 — **Lab Sample ID: 280-206400-2**
Date Collected: 04/10/25 12:35 — **Matrix: Solid**
Date Received: 04/22/25 09:50 — **Percent Solids: 96.4**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Auto Shaker			10.5 g	10 mL	692790	04/22/25 16:15	GML	EET DEN
Total/NA	Analysis	8321B		1	1 mL	1 mL	692879	04/22/25 23:35	RJC	EET DEN

Client Sample ID: COMP-1.0-1.5 — **Lab Sample ID: 280-206400-3**
Date Collected: 04/10/25 12:40 — **Matrix: Solid**
Date Received: 04/22/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			692786	04/22/25 11:41	MLL	EET DEN

Client Sample ID: COMP-1.0-1.5 — **Lab Sample ID: 280-206400-3**
Date Collected: 04/10/25 12:40 — **Matrix: Solid**
Date Received: 04/22/25 09:50 — **Percent Solids: 98.0**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Auto Shaker			10.3 g	10 mL	692790	04/22/25 16:15	GML	EET DEN
Total/NA	Analysis	8321B		1	1 mL	1 mL	692879	04/22/25 23:42	RJC	EET DEN

Client Sample ID: COMP-1.5-2.0 — **Lab Sample ID: 280-206400-4**
Date Collected: 04/10/25 12:45 — **Matrix: Solid**
Date Received: 04/22/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			692786	04/22/25 11:41	MLL	EET DEN

Lab Chronicle

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Client Sample ID: COMP-1.5-2.0

Lab Sample ID: 280-206400-4

Date Collected: 04/10/25 12:45
Matrix: Solid
Date Received: 04/22/25 09:50
Percent Solids: 98.0

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Auto Shaker			10.2 g	10 mL	692790	04/22/25 16:15	GML	EET DEN
Total/NA	Analysis	8321B		1	1 mL	1 mL	692879	04/22/25 23:48	RJC	EET DEN

Client Sample ID: COMP-2.0-3.0

Lab Sample ID: 280-206400-5

Date Collected: 04/10/25 12:50
Matrix: Solid
Date Received: 04/22/25 09:50

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	Moisture		1			692786	04/22/25 11:41	MLL	EET DEN

Client Sample ID: COMP-2.0-3.0

Lab Sample ID: 280-206400-5

Date Collected: 04/10/25 12:50
Matrix: Solid
Date Received: 04/22/25 09:50
Percent Solids: 97.3

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	Auto Shaker			10.3 g	10 mL	692790	04/22/25 16:15	GML	EET DEN
Total/NA	Analysis	8321B		1	1 mL	1 mL	692879	04/23/25 00:08	RJC	EET DEN

Laboratory References:

EET DEN = Eurofins Denver, 4955 Yarrow Street, Arvada, CO 80002, TEL (303)736-0100

Accreditation/Certification Summary

Client: Apex Laboratories LLC
Project/Site: A5D1452

Job ID: 280-206400-1

Laboratory: Eurofins Denver

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	Identification Number	Expiration Date
Alaska (UST)	State	18-001	11-30-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
8321B	Auto Shaker	Solid	Dalapon
8321B	Auto Shaker	Solid	Dicamba
8321B	Auto Shaker	Solid	Dichlorprop
8321B	Auto Shaker	Solid	Dinoseb
8321B	Auto Shaker	Solid	MCPA
8321B	Auto Shaker	Solid	MCPP
Moisture		Solid	Percent Moisture
Moisture		Solid	Percent Solids

Oregon	NELAP	4025	01-08-26

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

Washington	State	C583	08-03-25

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
Moisture		Solid	Percent Solids

SUBCONTRACT ORDER

Apex Laboratories

A5D1452

ACC 4/15/25 KN

SENDING LABORATORY:

Apex Laboratories
6700 S.W. Sandburg Street
Tigard, OR 97223
Phone: (503) 718-2323
Fax: (503) 336-0745
Project Manager: Darwin Thomas

RECEIVING LABORATORY:

Eurofins - Denver
4955 Yarrow Street
Arvada, CO 80002-4517
Phone :(303) 736-0100
Fax: (303) 431-7171

280-206400 Chain of Custody

Sample Name: COMP-0.0-0.5 — **Soil** — **After processing** — **Sampled: 04/10/25 12:30** (A5D1452-02)

Analysis	Due	Expires	Comments
8321 Herbicides (SUB)	04/28/25 17:00	04/24/25 12:30	Include dinoseb
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: COMP-0.5-1.0 — **Soil** — **After processing** — **Sampled: 04/10/25 12:35** (A5D1452-04)

Analysis	Due	Expires	Comments
8321 Herbicides (SUB)	04/28/25 17:00	04/24/25 12:35	Include dinoseb
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: COMP-1.0-1.5 — **Soil** — **After processing** — **Sampled: 04/10/25 12:40** (A5D1452-06)

Analysis	Due	Expires	Comments
8321 Herbicides (SUB)	04/28/25 17:00	04/24/25 12:40	Include dinoseb
Containers Supplied: (B)4 oz Glass Jar			

Sample Name: COMP-1.5-2.0 — **Soil** — **After processing** — **Sampled: 04/10/25 12:45** (A5D1452-08)

Analysis	Due	Expires	Comments
8321 Herbicides (SUB)	04/28/25 17:00	04/24/25 12:45	Include dinoseb
Containers Supplied: (B)4 oz Glass Jar			

Standard TAT

Released By	Date	Received By	Date
	4/21/25	UPS (Shipper)	
UPS (Shipper)			
Released By	Date	Received By	Date
		S EEDEN	4/22/25 9:50

T:5.5 CF:0.3 IR:MAGA

SUBCONTRACT ORDER

Apex Laboratories

A5D1452 KN

After processing

Sample Name: COMP-2.0-3.0 **Soil** **Sampled: 04/10/25 12:50** (A5D1452-10)

Analysis	Due	Expires	Comments
8321 Herbicides (SUB)	04/28/25 17:00	04/24/25 12:50	Include dinoseb
Containers Supplied:			
(B)4 oz Glass Jar			

Standard TAT

UPS (Shipper)

Released By	Date	Received By	Date
UPS (Shipper)			
Released By	Date	Received By	Date

EET-DEN 4/22/25 950

SHIPPING DEPT
5037182323
APEX LABS
6700 SW SANDBURG ST
TIGARD OR 97223

25 LBS 1 OF 1
DWT: 16,15,10

SHIP TO:
SAMPLE RECEIVING
3037360100
EUROFINS - DENVER
4955 YARROW STREET
ARVADA CO 80002

CO 802 9-30

UPS NEXT DAY AIR 1
TRACKING #: 1Z C1B 065 01 1731 3126

BILLING: P/P

XOL 25.03.15 NV45 17.0A 04/2025*

EUROFINS – DENVER
4955 YARROW ST
ARVADA CO 80002

P: GREEN S: 2TR I: 2W
222 – 1003 1030
1ZC1B0665011731 3126
REED01712R DEST2 APR 22 06:56:27 2025
US HIPPS 25.3.2 Z0630R

DOOR- 0408 CO 802 9-30
AMP65783UPS CO 80002
3-PD

280-206400 Waybill

Login Sample Receipt Checklist

Client: Apex Laboratories LLC

Job Number: 280-206400-1

Login Number: 206400

List Source: Eurofins Denver

List Number: 1

Creator: Held, Wesley

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is <6mm (1/4").	N/A	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	