Appendix M

Environmental Site Assessment and Soil Testing Memos

Appendix M-1
Phase 1 ESA

PHASE I
ENVIRONMENTAL SITE ASSESSMENT

SCOTTS VALLEY BAND OF POMO INDIANS
FEE-TO-TRUST PROJECT

SOLANO COUNTY, CA

MAY 2023

PREPARED FOR:

Scotts Valley Band of Pomo Indians
1005 Parallel Drive
Lakeport, CA, 95453

PREPARED BY:

AES-Montrose
1801 7th Street, Suite 100
Sacramento, CA 95811
(916) 447-3479
www.analyticalcorp.com

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EXECUTIVE SUMMARY

PHASE I ENVIRONMENTAL SITE ASSESSMENT
SCOTTS VALLEY VALLEJO FEE-TO-TRUST PROJECT

The Subject Property consists of a single 129-acre parcel of land (Subject Property) located northeast of the intersection of Interstate 80 (I-80) and Columbus Parkway in the City of Vallejo, Solano County, CA (Project Site). This Phase I ESA has been prepared on behalf of the Scotts Valley Band of Pomo Indians (Tribe) and in conformance with the scope and limitations of the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21 and Bureau of Indian Affairs (BIA) Guidelines (602 DM Chapter 2). Any exceptions to or deletions from this practice are described in **Section 1.0**. After the Subject Property is taken into federal trust, the Tribe proposes to develop and operate a gaming facility.

The Phase I ESA includes database searches, a field survey, and interviews and was prepared to identify Recognized Environmental Conditions (RECs) that may affect future uses of the Subject Property.

Current Use of Subject Property

The Subject Property is currently vacant.

Site Features of Concern

There are the remnants of small-scale open-pit serpentine mining on the Subject Property. Serpentine is a source of naturally occurring asbestos (NOA), and outcrops occur naturally throughout the parcel; the mines either exhausted individual veins or have been covered by eroding soil, tailings piles are covered with soil, and so they do not offer any remaining serpentine exposures; the natural outcrops are the locations of weathered serpentine on the ground surface. Asbestos is commonly found in ultramafic rock, including serpentine, near fault zones and is released into the air when it is broken or crushed. This can happen when land is graded for building purposes, or at quarrying operations. The state of California has determined that NOA, such as serpentine rock, is a toxic air contaminant and if inhaled may result in the development of lung cancer or cause other health hazards. Work in serpentine areas requires a District pre-approved dust control plan and may include asbestos air monitoring. Additionally, the mine tailings on the Subject Property may contain toxic substances other than asbestos; the presence of a mercury mine less than a mile to the east (DWR, 2023) suggests the potential for other toxic substances.

There are pieces of milled lumber and piping that would have been associated with processing mined ore, but all structural elements have collapsed and are scattered, except for a spring box located upslope from the mine complex.

The only other finds consist of two high-voltage power lines with towers, each crossing the Subject Property in an approximately north to south direction, a monitoring well, water main covers, and a very large soil stockpile at the southern end of the Subject Property.

Limiting Conditions and Data Gaps

The Subject Property is unmapped in the Sanborn Library; thus, no records were available for review.

Activity and Use Limitations

A review of "activity and use limitations" was not within the scope of this ESA but may be obtained through a title search.

Findings

This ESA was performed in conformance with the scope and limitations of ASTM Standard Practice E 1527-21 and the BIA Guidelines (602 DM Chapter 2). Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on information gathered while conducting this ESA, no RECs, Historic RECs, or Controlled RECs were identified in connection with the Subject Property.

Recommendations

Based on the findings and conclusions of this Phase I ESA, the following recommendations are made:

- If ground-disturbing activities occur on the Subject Property, follow a district-approved dust control plan.
- Is recommended that the mine tailings piles on site be tested to ensure that no toxic substances are contained therein which might be a REC for the Subject Property.
- Track down monitoring well results as part of project planning.

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SECTION 1.0

INTRODUCTION

1.1 PURPOSE

This Phase I Environmental Site Assessment (ESA) was prepared to identify Recognized Environmental Conditions (RECs) that may affect future uses of the Subject Property. The Phase I ESA includes a database search, a field survey, and interviews. The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products into structures on the property or into the ground, groundwater, or surface water of the property. The term includes hazardous substances or petroleum products even under conditions in compliance with relevant laws. The term is not intended to include *de minimis* conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Additionally, the term Historical Recognized Environmental Conditions (HREC) refers to environmental conditions associated with the Subject Property, including a past release of any hazardous substance or petroleum product that has since been remediated, which would have been considered a REC in the past. This ESA also includes the analysis of the presence of Controlled Recognized Environmental Conditions (CREC) for hazardous substance releases that have been partially addressed through remediation, but where some contamination remains in place under certain risk-based restrictions or conditions. An analysis of HRECs and CRECs are included in this ESA (American Society for Testing and Materials [ASTM], 2021).

1.2 SCOPE OF SERVICES

This Phase I ESA was completed in conformance with the Bureau of Indian Affairs (BIA) Guidelines (602 DM Chapter 2) and the ASTM Standard Practice E 1527-21. The Phase I ESA includes the approximately 101-acre Subject Property and surrounding known sources of contamination up to a 1.0-mile radius from the Subject Property. The scope of work performed includes:

1. Review of previously prepared ESAs,
2. Review of relevant database listings of hazardous material sites, waste generators, and underground storage tanks (UST),
3. Review of historical topographic maps and aerial photographs of the Subject Property,
4. Interviews with owners, operators, occupants, and/or local government officials.
5. Site reconnaissance of the Subject Property.

Physical testing of soil or groundwater is not within the scope of this Phase I ESA. Neither testing for asbestos-containing building materials nor lead-based paint surveys are included as part of this assessment. Per- and Polyfluoroalkyl Substances (PFAS) are not considered as part of this assessment.

1.3 LIMITATIONS AND EXCEPTIONS

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property. Conformance of this assessment to ASTM Standard Practice E 1527-21 will reduce, but not eliminate uncertainty regarding the potential for RECs in connection with the Subject Property.

While every effort has been made to discover and interpret available historical and current information on the Subject Property within the time available, the possibility of undiscovered contamination remains. This report is a best effort collection and interpretation of available information consistent with industry standards for the completion of Phase I ESAs.

1.4 METHODOLOGY

The following data sources were included in this Phase I ESA:

Historical Records

- Previous land uses and the history of the Subject Property were researched in an effort to identify RECs, HRECs, and CRECs at or near the Subject Property.
- Historical aerial photographs (**Appendix A**) and historic topographic maps (**Appendix B**) from different decades were examined for the presence of aboveground storage tanks (AST), industrial buildings, gas station canopies and/or pump islands, as well as other indications of bulk hazardous material storage within the study area.
- Sanborn Fire Insurance Maps document historical property use through abbreviations and map symbols that identify commercial, residential, industrial, residential, and other land uses; because of the rural location, the Subject Property is not included on Sanborn maps (**Appendix C**).
- The City Directory Image Report may also indicate previous land uses of the Subject Property (**Appendix D**).
- The Department of Toxic Substances Control Envirostor website.
- The California Department of Water Resources GeoTracker website.

Database Searches

A database search was conducted utilizing the online search company that provides a Radius Map Report of the results of an Environmental Database Report (EDR). The Radius Map Report (**Appendix E**) provides graphical and tabulated results of the EDR search that includes records of known storage tank sites and known sites of hazardous materials generation, storage, and/or release compiled by federal, state, and local agencies. These compiled records consist of: (a) known or potential hazardous waste sites and landfills; (b) sites currently under investigation for environmental violations; (c) sites that manufacture, generate, use, store, and/or dispose of hazardous materials or hazardous wastes; (d) sites that have USTs and/or ASTs; and (e) sites with recorded violations of regulations concerning USTs and hazardous materials/hazardous wastes. The database search is intended to identify facilities that may have the potential to impact surface and subsurface conditions on the Subject Property.

Site Reconnaissance

A site reconnaissance inspection was conducted on September 9, 2022, to visually examine the Subject Property for obvious physical indications of improper hazardous substance or petrochemical disposal, such as stained soil or asphalt, stressed vegetation, sumps, partially buried drums, bulk USTs and ASTs for fuel, and other obvious signs of hazardous materials involvement.

Questionnaires

A questionnaire was completed by Casey Spanish, property owner and Solano County.

1.5 DEVIATIONS AND DATA GAPS

ASTM Standard E 1527-21 requires any significant data gaps, deviations, and deletions from the ASTM Standard to be identified and addressed in the Phase I ESA.

A significant data gap would be one that affected the ability to identify a REC on the Subject Property or adjacent properties.

Due to the location of the Subject Property, Sanborn Fire Insurance Maps were not available (**Appendix C**). However, historical aerial photographs (**Appendix A**) and historic topographic maps (**Appendix B**) were available for review of past uses of the Subject Property. Therefore, the lack of Sanborn Fire Insurance Maps is not considered a significant data gap for this Phase I ESA. The EDR radius map and site reconnaissance were completed over six months ago, however since the site is undeveloped these are not significant data gaps.

SECTION 2.0

SITE DESCRIPTION AND RECONNAISSANCE

2.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located northeast of the intersection of Interstate 80 (I-80) and Columbus Parkway in the City of Vallejo, Solano County, CA (**Figures 1, 2,** and **3**) and is further identified as Assessor's Parcel Number 0182-010-010. The site is in Township 4 North, Range 3 West, Sections 5 and 32, as depicted on the Cordelia, CA United States Geological Survey (USGS) quadrangle.

2.2 SITE AND VICINITY GENERAL CHARACTERISTICS

The Subject Property is immediately adjacent to I-80, and the Six Flags Discovery Kingdom amusement park and the Gateway Plaza commercial center are nearby. Regional access to the property is provided by I-80 to the west and Columbus Parkway to the south. The remainder of the Subject Property is surrounded by undeveloped land.

2.3 CURRENT USES OF THE SUBJECT PROPERTY

The Subject Property is primarily undeveloped vacant land.

2.4 CURRENT USES OF ADJOINING PROPERTIES

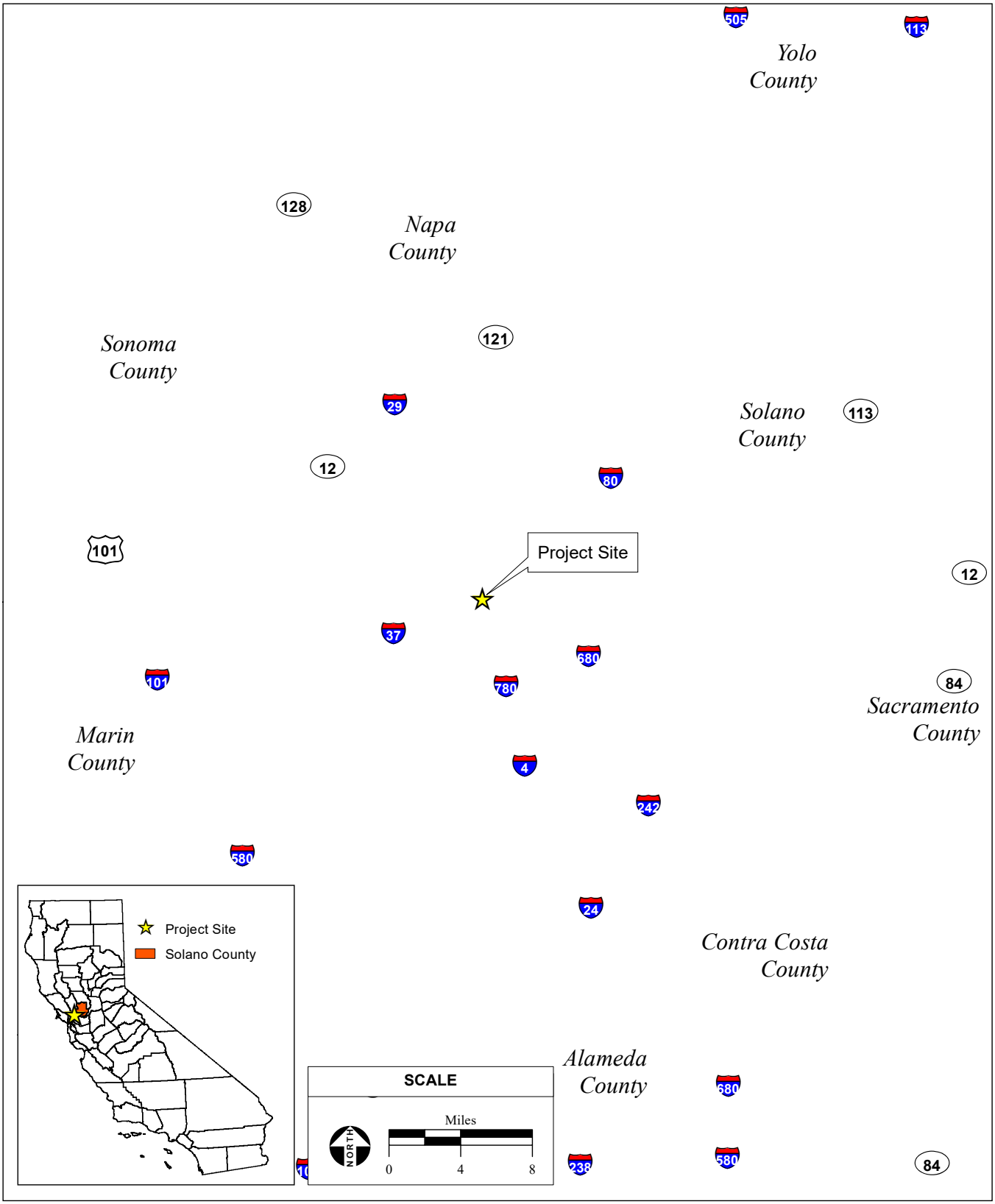
The current adjoining property uses are:

North: Vacant land with minimal rural residential development
South: Columbus Parkway, Gateway Plaza, and residential development
East: Vacant land with minimal rural residential development
West: I-80, Six Flags, residential development

2.5 HISTORIC USES OF THE SUBJECT PROPERTY

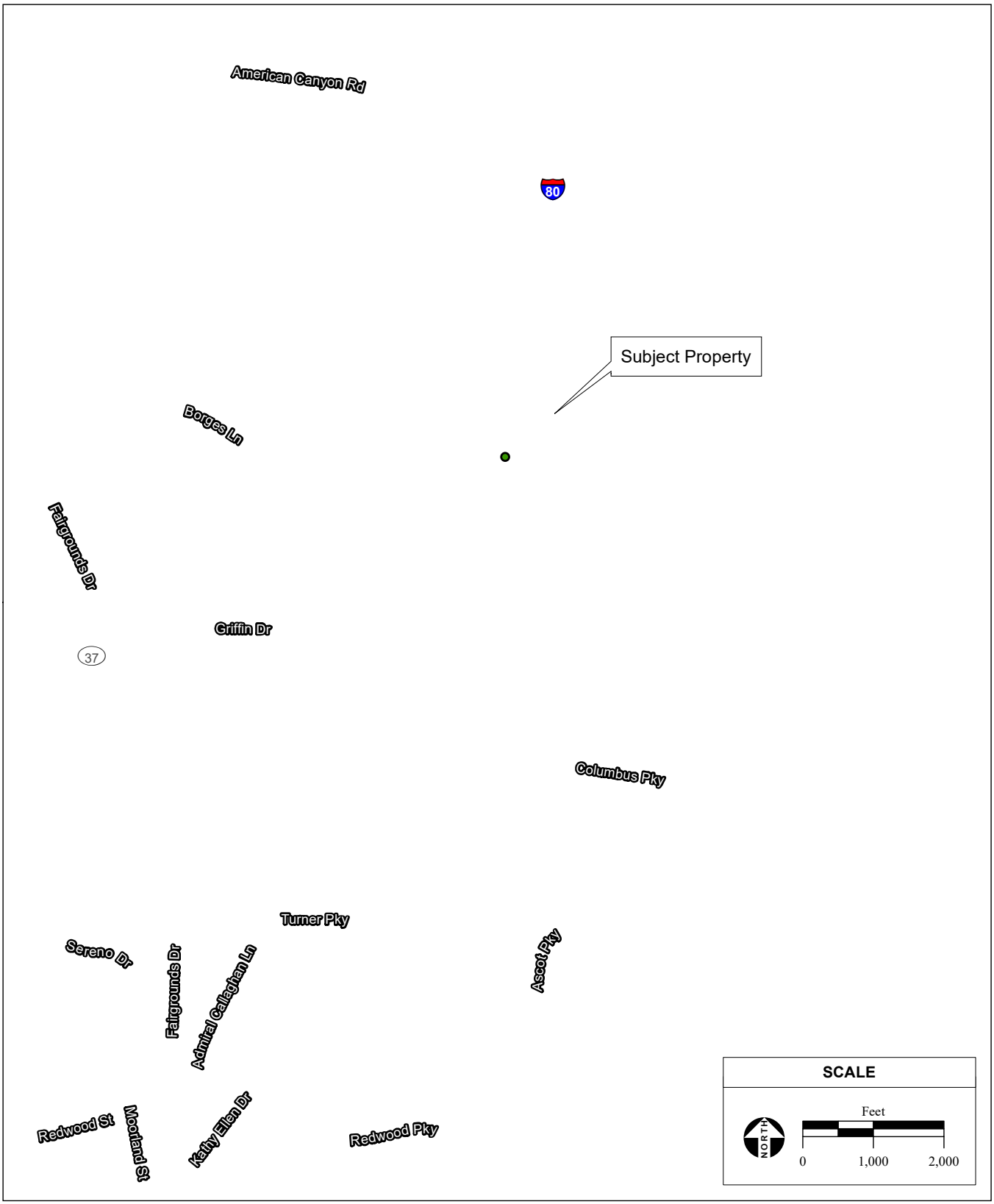
Aerial Photographs

Historic aerial photographs (**Appendix A**) were reviewed for information regarding past uses of the Subject Property and surrounding areas. Aerial photographs from 1937, 1947, 1952, 1958, 1963, 1968, 1974, 1982, 1993, 2006, 2009, 2012, and 2016 were reviewed; all photographs were at a 1" = 875' scale and had varying clarity.



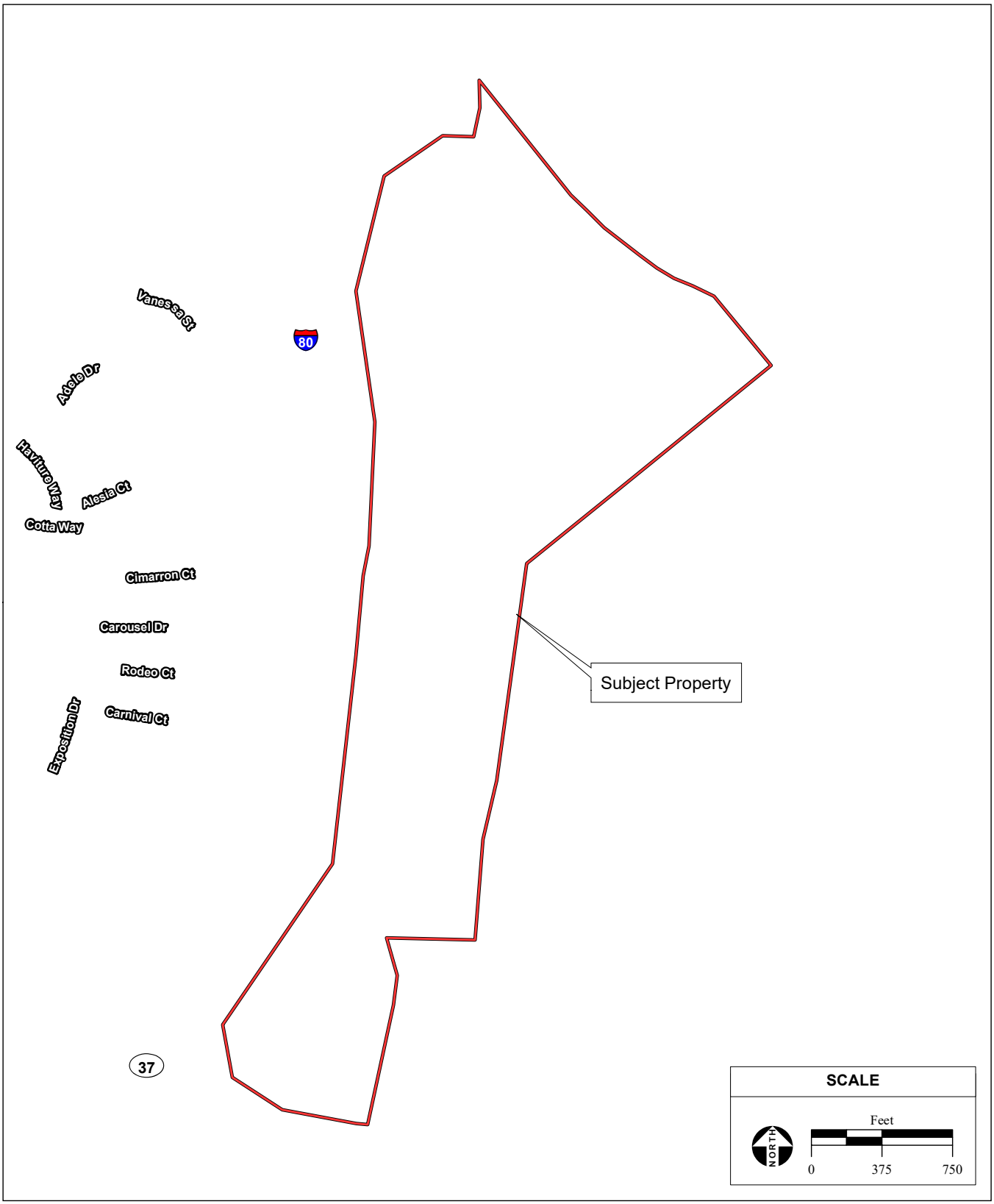
SOURCE: ESRI, 2022; AES-Montrose, 9/19/2022

Figure 1
Regional Location



SOURCE:"Cordelia, CA" USGS 7.5 Minute Topographic Quadrangle,
T3N R3W, T4N R3W, Sections 5, 32, & 33, Mt. Diablo Baseline & Meridian;
ESRI, 2022; AES-Montrose, 9/19/2022

Figure 2
Site and Vicinity



SOURCE: Solano County Parcels, 2022; Vivid Advanced Maxar aerial photograph, 4/8/2021, 6/2/2021; ESRI, 2022; AES-Montrose, 9/19/2022

Figure 3
Aerial Photograph

Historical aerial images offer detailed review of previous land uses on the Subject Property and adjacent properties. In the earliest photograph, 1937, I-80 and Columbus Parkway are visible; an agricultural area and residence are visible adjacent to the southeastern corner of the Subject Property, and either a drainage or possible road appears with four trees spaced alongside, barely within the Subject Property boundaries. There is also a possible small agricultural area in the northwestern corner, however the rest is vacant with dirt roads and drainages. In 1947, there is a possible mining/quarry area located in the approximate center of the Subject Property. In 1958, there is evidence of mowing, particularly at the southern end of the Subject Property and no indications of active mining or quarrying.

No activity is visible beginning in 1963, although the beginnings of residential development appear to the west, a line of electrical transmission towers appears near the western edge of the Subject Property by 1968, and a water tank appears to the east of the Subject Property in the 1993 photo. The commercial development south of the Subject Property is also beginning in 1993.

Historic Topographic maps

Available historic USGS topographic quadrangles (**Appendix B**) were reviewed for information regarding past uses of the Subject Property. These include: 15' Carquinez Strait (1896, 1901, 1940), 15' Karquines (1898, 1901), 30' Napa (1902), 15' Port Chicago (1947), 7.5' Benicia (1950, 1951, 1968, 1980, 2012, 2015, 2018), and 7.5' Benicia (1950, 1951, 1968, 1980, 2012, 2015, 2018).

The beginnings of I-80 and Columbus Parkway are visible from the earliest (1896) map, as is the residence which is likely to be the one located southeast of the Subject Property. A north-south running transmission line crosses the full length of the Subject Property by 1940, and a residence and access road appear near the northeastern corner but disappear by 1950. A second transmission line, following the western edge of the Subject Property, appears in 1950. No other structures appear to be present on the Subject Property.

Sanborn Fire Insurance Maps

The Subject Property is unmapped by Sanborn Fire Insurance Maps (**Appendix C**).

The City Directory Image Report

The City Directory may also indicate previous land uses of the cross street of the Subject Property (**Appendix D**). Images are unavailable prior to 1965. The Subject Property is not listed.

2.6 PHYSICAL FEATURES

Hydrology and Geology

The Subject Property slopes steeply upward to the north, with the only semi-level areas near the southern end. Surface waters in the Subject Property drain to the south and southwest. The rock stratigraphic unit of the Subject Property is of the Mesozoic era, Cretaceous system, and Lower Cretaceous series (Appendix E). The dominant soils on the Subject Property are Toomes very stony loam, Dibble clay loam, and Clear Lake clay. The loams are both well-drained, while the clay is poorly drained. Toomes very stony loam and Clear Lake clay both have very slow infiltration rates, and Dibble clay loam has a slow infiltration rate (**Appendix E**). The Subject Property is located in a very seismically active region; the nearest fault is the Holocene-era Green Valley Fault (DOC, 2015).

The Subject Property exhibits an elevation increase from approximately 150 above mean sea level (amsl)

in the southern portion of the Subject Parcel to 550 feet amsl in the northern portion of the Subject Parcel. The nearest natural water sources consist of several ephemeral drainages crossing the Subject Parcel.

Floodplain Map

The Federal Emergency Management Agency (FEMA) designates flood risk areas based on a parcel's location with respect to 100-year and 500-year floodplains. A 100-year flood is the flood elevation that has a 1 percent chance of being equaled or exceeded each year and a 500-year flood is the flood elevation that has a 0.2 percent chance of being equaled or exceeded each year. FEMA prepares Flood Insurance Rate Maps (FIRM) that show the flood risk designations of lands throughout the United States. The Subject Property is located in Flood Zone X, which is an area of minimal flood hazard. Zone X is identified by FEMA as those areas located outside the Special Flood Hazard Area and above the elevation of a 0.2-percent-annual-chance flood (FEMA, 2022). A copy of the regional floodplain map is included in **Appendix F**.

Wetlands Map

A series of ephemeral drainages have been mapped on the Subject Property (USFWS, 2022, **Appendix G**).

Roadways

The Subject Property is undeveloped, with internal dirt roadways. Regional access to the property is provided by I-80 to the west, and local access is provided by Columbus Parkway to the south.

2.7 SITE RECONNAISSANCE OBSERVATIONS

The objective of the site reconnaissance was to identify current or historic hazardous materials involvement or signature environmental conditions on the Subject Property to substantiate or build upon research demonstrating past uses of the Subject Property. Hazardous materials involvement or signature environmental conditions include the presence or likely presence of any hazardous materials or petroleum products that indicate an existing release, past release, or a threat of release into structures, soil, or groundwater on the Subject Property. Signs of hazardous materials could include ASTs or USTs; on-site wastewater treatment systems; monitoring wells; stained soils and/or unusual odors; indications of any excavation or removal of soils; patched asphalt; large debris piles; or other obvious signs of hazardous materials involvement.

The site reconnaissance was performed by Charlane Gross on September 9, 2022. No evidence of stained soils, odors, or past hazardous releases was observed within the Subject Property. The only evidence of use included the transmission lines on the eastern and western portions of the Subject Property, a small exploratory mine tunnel, a second possible mine tunnel, an open pit steatite mine, mine tailings, and a sparse debris scatter related to mining activities that included lumber and metal piping.

Buildings/Structures

There are no buildings or structures on the Subject Property.

Undocumented fill

No undocumented fill was observed on the Subject Property; the soil mounds are clearly tailings from the mining efforts. However, possible other sources of contamination in any of the tailings is unknown.

Agricultural uses

There is no evidence that the Subject Property has been used for agriculture. Site observations are summarized in **Table 1**.

TABLE 1: SUMMARY OF SITE OBSERVATIONS

Site Setting	Observations
Current Uses of Property	The Subject Property is currently vacant, and is only used for grazing.
Past Uses of Property	The Subject Property has been used for serpentine mining, as a soil stockpile location, and for grazing.
Current Uses of Adjoining Property	North: Vacant and minimal rural residential
	South: Columbus Parkway, Gateway Plaza, and residential development
	East: Vacant land with minimal rural residential development
	West: I-80, Six Flags Amusement Park, residential development
Current or Past Uses in the Surrounding Area	The area has been historically used for agriculture, residential, or vacant.
Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions	The Subject Property is steeply sloped upwards towards the north and east. There are natural serpentine exposures running in veins, with weathered rock faces to the west. Two primary drainages cross the Subject Property.
General Description of Structures	There are no structures.
Undocumented Fill	There is a very large soil stockpile at the southern end of the Subject Property.
Roads	Regional access to the property is provided by Interstate 80 to the west and Columbus Parkway to the south. There is an internal network of dirt roads.
Potable Water Supply	There are water meter covers, and it is presumed that water lines run along at least part of the western edge of the Subject Property.
Sewage Disposal System	There is currently no sewage disposal system on the Subject Property.
Waste Removal Services	There is currently no waste removal service at the Subject Property.
Possible Hazardous Substances and Petroleum Products in Connection with Identified Uses	No hazardous substances or petroleum products were identified.
Storage Tanks and Associated Piping	No storage tanks or piping was observed except abandoned mine features.
Odors	No strong, pungent, or noxious odors were observed.
Pools of Liquid	No pools of liquid were observed.
Drums (5 gal to 55 gal containers should be described)	No drums were observed.
Potential Hazardous Substances and Petroleum Products Containers	No petroleum product containers were observed.
Unidentified Substance Containers	No unidentified containers were observed on the Subject Property.
Polychlorinated Biphenyls (PCB)	There were no transformers on the Subject Property.
Pits, Ponds, or Lagoons	None of the mine pits had filled with water.
Stained Soil or Pavement	No stained soil or pavement was observed.
Stressed Vegetation	No stressed vegetation was observed.
Solid Waste	Debris observed on the Subject Property consisted of windblown trash from the highway.
Waste Water	No wastewater discharge or standing pools were observed.
Wells	There was one monitoring well observed on the Subject Property.
Septic System	No septic systems were observed on the Subject Property.

2.8 SITE PHOTOGRAPHS

Figure 4 provides photographs that show the site conditions of the Subject Property at the time of the site visits.

- Monitoring Well (**Figure 4**, Photo 1).
- Eastern Power Line (**Figure 4**, Photo 2).
- Western Power Line (**Figure 4**, Photo 3).
- Water Main Covers (**Figure 4**, Photo 4).
- Western Serpentine Mine (**Figure 4**, Photo 5).
- Central Serpentine Mine (**Figure 4**, Photo 6).
- Soil Mound at Southern End of Subject Property, View from the North (**Figure 4a**, Photo 7).
- Tunnel into Serpentine Outcrop (**Figure 4**, Photo 8).
- Rubble-Filled Pit (**Figure 4**, Photo 9).
- Soil Mound at Southern End of Subject Property, View from the South (**Figure 4b**, Photo 10).

Figure 5 shows locations of various finds within the Subject Property.

PHOTO 1: Monitoring Well.

PHOTO 2: Eastern Power Line.

PHOTO 3: Western Power Line.

PHOTO 4: Water Main Covers

PHOTO 5: Western Serpentine Mine.

SOURCE: AES-Montrose, 9/19/2022

Figure 4a
Site Photographs

PHOTO 6: Central Serpentine Mine.

PHOTO 7: Soil Mound at Southern End of Subject Property, View from the North.

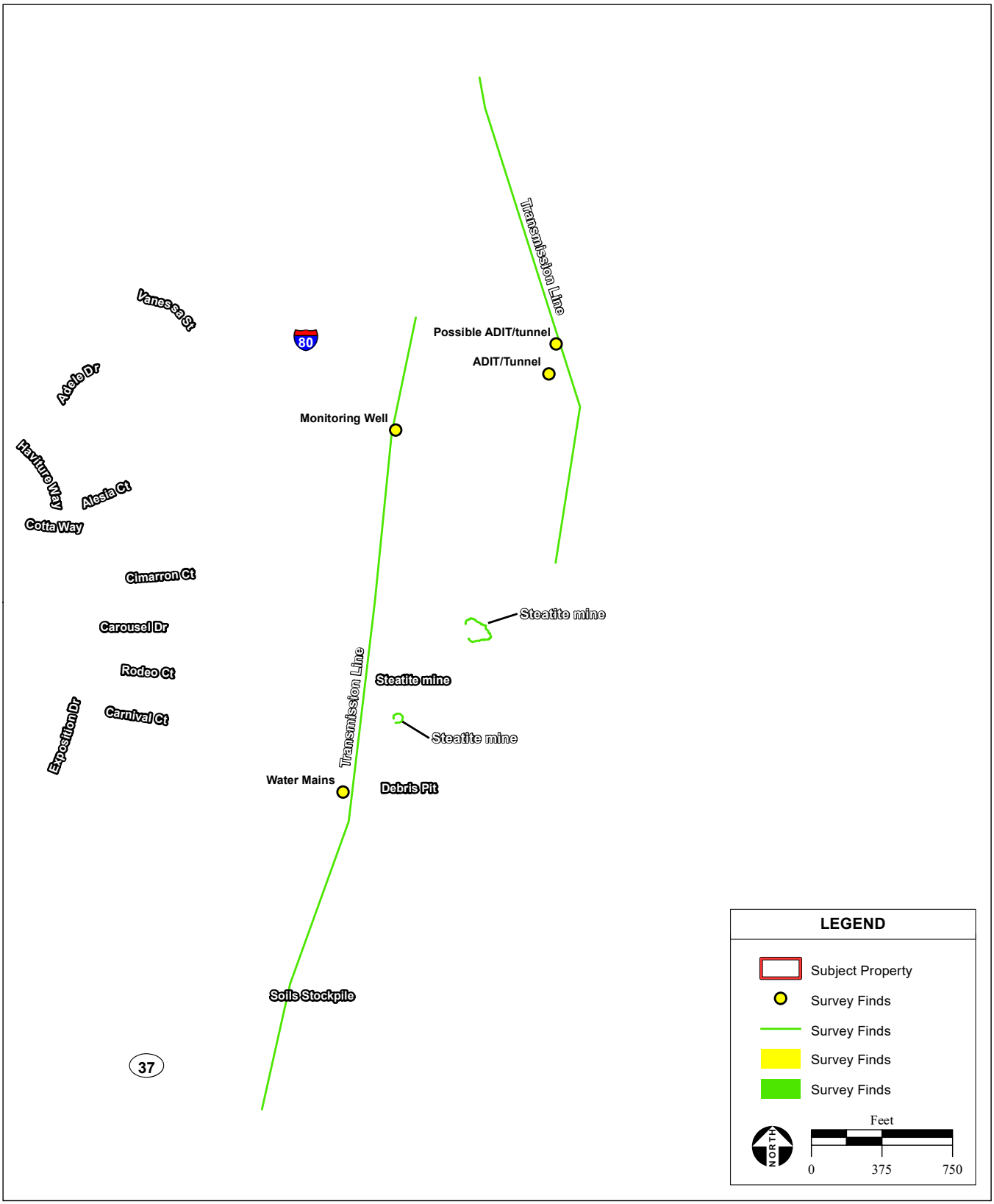
PHOTO 8: Tunnel into Serpentine Outcrop.

PHOTO 9: Rubble-Filled Pit.

PHOTO 10: Soil Mound at Southern End of Subject Property, View from the South.

SOURCE: AES-Montrose, 9/19/2022

Figure 4b
Site Photographs



SOURCE: Solano County Parcels, 2022; Vivid Advanced Maxar aerial photograph, 4/8/2021, 6/2/2021; ESRI, 2022; AES-Montrose, 9/19/2022

Figure 5
Survey Finds

SECTION 3.0

INTERVIEWS AND USER-PROVIDED INFORMATION

3.1 LOCAL ENVIRONMENTAL RECORDS SOURCES

Local Environmental Agency

The EDR Report provided searches of the available regional hazardous materials data. No documentation was found that indicates current or past use of hazardous materials on the Subject Property that would result in limitation of use.

Department of Planning and Zoning

Zoning designations on the Subject Property were reviewed through information provided by the City of Vallejo. The parcel is zoned for Commercial – Freeway (CF): Freeway Shopping and Service, as well as Mixed-Use Planned Development (MUPD) (City of Vallejo, 2022).

Electrical Utility and Natural Gas Companies

PG&E provides electrical service to vicinity of the Subject Property. High-voltage electrical utility lines run along the western edge of the Subject Property and through the north-central portion of the site.

3.2 INTERVIEWS AND QUESTIONNAIRES

Copies of questionnaires are included in **Appendix H**.

Owner/User Questionnaire and Owner Provided Information

The Owner/User questionnaire was completed by property owner Casey Spanish on August 31, 2022. In his responses, Mr. Spanish indicated he does not have specific knowledge of hazardous materials or conditions on the Subject Property.

Title Records

No title company or professional was engaged by the client to review recorded land title records and lien records. Likewise, documentation regarding property valuation was not provided nor reviewed.

Known/Reasonably Ascertainable Information and Actual Knowledge of the User

The Owner/User Questionnaire asks if the owner is aware of "commonly known or reasonably ascertainable information about the property that would help the environmental professional to identify conditions indicative of releases or threatened releases of hazardous materials." Mr. Spanish checked the "no" box.

Environmental Liens, Activity and Use Limitations, and Valuation Reductions

On the Owner/User Questionnaire, Mr. Spanish indicated that he was not aware of any environmental liens or activity and use limitations.

Degree of Obviousness

Mr. Spanish confirmed that based on his knowledge and experience related to the property, there are no

obvious indicators that point to the presence or likely presence of hazardous materials products or petroleum product releases at the Subject Property.

Specialized Knowledge

Question 3 of the Owner/User Questionnaire states that Mr. Spanish does not have specialized knowledge of nearby properties.

Adjacent Property Owner and Agency Interviews

No adjacent property owner was interviewed. An inquiry was sent to Solano County, asking about records of hazardous materials incidents on the Subject Property. A reply was received from Alisha Seay, Environmental Health Assistant with the Hazardous Materials Section stating that the County has no records of hazardous materials issues on the Subject Property.

SECTION 4.0

RECORDS REVIEW

4.1 DATABASE SEARCH

Database searches were conducted for records of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination within 1.0 mile from the boundary of the Subject Property. The environmental database review was accomplished by using the services of a computerized search firm, EDR. EDR uses a geographic information system to plot locations of past or current hazardous materials involvement. The EDR Report was reviewed to determine if the Subject Property and adjacent sites are listed on regulatory agency databases. Although a site may be listed within a regulatory agency database, the listed site may not currently be contaminated or affect the environmental quality of the Subject Property and therefore may not be considered a REC. The regulatory agency database search is only as accurate as the data and date the data was entered into the regulatory agency-maintained database. If not reported to the appropriate regulatory agency, installation of USTs or hazardous materials releases would not be listed on the regulatory agency databases that were searched for this Phase I ESA. The purpose of the database search is to determine if the Subject Property or adjacent sites contain RECs that would impact surface and/or subsurface conditions on the Subject Property. The EDR Report includes list of known and "unmapped" or orphan sites. The Subject Property was not found on any regulatory agency databases.

The purpose of the database search is to determine if the Subject Property or adjacent sites contain RECs that would impact surface and/or subsurface conditions on the Subject Property. The EDR database report includes list of known and "unmapped" or orphan sites. The complete list of reviewed databases is provided in the EDR Report, included in **Appendix E**, and is summarized in **Table 2**.

TABLE 2: EDR SUMMARY OF AGENCY DATABASES

Regulatory Agency Database	Min. Search Distance	Property Listed	Sites Listed
RCRA-LQG	0.25 mile	No	1
RCRA-SQG	0.25 mile	No	4
Leaking Underground Storage Tanks (LUST)	0.50 mile	No	2
CPS-SLIC	0.50 mile	No	1
Aboveground Storage Tanks (AST)	0.25 mile	No	1
CERS HAZ WASTE	0.25 mile	No	6
CERS TANKS	0.25 mile	No	1
USEPA RCRA Non-Generators (NonGen) / No Longer Regulated (NLR)	0.25 mile	No	3
CA Cortese Hazardous Waste and Substances List (Cortese)	0.50 mile	No	1
HIST CORTESE	0.50 mile	No	1
		TOTAL	21

Notes: TP = Target Property
Sites may be listed in more than one database
Source: EDR, 2022 (**Appendix E)**

4.2 RECORDED HAZARDOUS MATERIALS

Subject Property

There are no hazardous materials listings within the Subject Property.

Adjacent Properties

There are nine properties listed within a 1.0-mile radius of the Subject Property because they are potential hazardous waste generators, but none have reported any leaks, spills, or other potential environmental impacts. These include Home Depot, a CVS pharmacy, Costco, Kohl's, Wilson Cornelius Ford, Best Buy, and the Vallejo Corners Dry Cleaners. All are downgradient from the Subject Property and are not RECs.

Vallejo Young U.S. Army Reserve Facility
This is site No. 48970006, as listed on the DTSC EnviroStor website (DTSC, 2023), and located approximately 1,200 feet east of the Subject Property. The facility covered approximately 4.09 acres. Sites of potential releases include a grease rack and vehicle wash rack which were constructed in the early 1960s. Both the grease rack and vehicle wash rack are not in use. A draft Preliminary Assessment (PA) was prepared in February 1999, and a final Site Investigation Work Plan was prepared in August 2000. A soil investigation was conducted to determine if releases had occurred from the grease rack or wash rack. Results of sampling conducted in 2001 identified no significant releases and a No Further Action status was approved in October 2005. This site does not pose a REC for the Subject Property.

St. John's Mercury Mine
This site is No. T10000011123 on the DWR GeoTracker website (DWR, 2023) and located approximately 4,800 feet east of the Subject Property. St. Johns is an inoperative mercury mine that was mined intermittently at the surface and underground in the 1870s and intermittently through WWII. USGS Mineral Resources Database System (MRDS) lists its productivity as medium and indicates ore was processed on site. At least two furnace sites have been identified, one likely previously removed and one with remnants on site, as well as several adits. The mine is located at the top of a hill (referred to in the literature as St. Johns Mountain) with four drainages; two are tributaries to Sulphur Springs Creek (N and E), one to American Canyon Creek (NW), and one to Rindler Creek (S); none of these drainages cross the Subject Property.

Vallejo Toyota, 1001 Admiral Callaghan Lane
This site is included on a number of listings including LUST, SWEEPS UST, CA FID UST, Cortese, HIST Cortese, and CERS; the site is 1323 feet south-southwest and downgradient from the Subject Property. This was the location of a leaking underground storage tank (LUST). The case was opened, the site was assessed, and the case was closed all in 1998, after five gasoline, diesel fuel, waste oil, new oil, and waste antifreeze were removed. The investigation found evidence of contamination at 14 feet below surface, and the water table at 6.5 feet below ground surface, however water flow is west-southwest, and therefore the Vallejo Toyota site does not pose a REC for the Subject Property (**Appendix E**).

Unmapped or Orphan Sites

One orphan site, a closed landfill, is located at Marine World Parkway and Sonoma Boulevard on State Highway 37. This is not the site of a violation, is downgradient, and is not considered a REC for the Subject Property.

Previous Environmental Studies

AES completed a Phase I ESA for the Subject Property in 2015 (AES, 2015) which was reviewed for preparation of this report.

SECTION 5.0

FINDINGS AND CONCLUSIONS

The following observations and findings were identified during the preparation of this report:

- The Subject Property contains no development; however, it has been the location of serpentine mining in the past.
- Serpentine is a source of naturally occurring asbestos.
- Surrounding properties listed in the EDR radius map report have been reviewed and no RECs have been identified in connection with the Subject Property.
- There is a well monitoring PFAS on site.

This Phase I ESA was conducted in conformance with the scope and limitations of ASTM Standard Practice E 1527-21 and the BIA Guidelines (602 DM Chapter 2). Any exceptions to, or deletions from, this practice are described in **Section 1.0** of this report. Based on information gathered while conducting this Phase I ESA, no RECs, HRECs, or CRECs were identified in connection with the Subject Property.

Based on the findings and conclusions of this Phase I ESA, the following recommendations are made:

- If ground-disturbing activities occur on the Subject Property, follow a district-approved dust control plan.
- Is recommended that the mine tailings piles on site be tested to ensure that no toxic substances are contained therein which might be a REC for the Subject Property.
- Track down monitoring well results as part of project planning.

SECTION 6.0

REPORT PREPARERS

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional (EP) as defined in Section 312.10 of 40 CFR 312. Charlane Gross performed the site reconnaissance and prepared this report under the professional supervision of Stephen Defibaugh, who qualifies as an EP as defined in ASTM Standard E 1527-21, and has the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. Resumes for the report contributors are included in **Appendix I**.

6.1 REPORT PREPARATION

AES - Montrose
1801 7th Street, Suite 100
Sacramento, CA 95811

Site Assessor: _____ **Date:** April 24, 2023
Charlane Gross

Report Preparer: _____ **Date:** April 24, 2023
Charlane Gross

EP: _____ **Date:** May 3, 2023
Stephen Defibaugh

SECTION 7.0

REFERENCES

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Appendix M-2

Soil Testing Memo 2023

1631 E. Saint Andrew Place
Santa Ana, CA 92705
t 714.919.6500
f 949.988.3514

July 19, 2023

Casey Spanish
Steelman Partners
3330 W Desert Inn Road
Las Vegas, NV

Soil Sample Results
Scotts Valley
Vallejo, CA

Mr. Spanish,

Montrose Environmental (Montrose) has prepared this summary report of results of sampling at the site in Scotts Valley.

Soil Sampling

Samples were collected by excavating each location to approximately 3 to 6-inches below grade to expose fresh, near surface soil. No stained or odorous soils were observed during the sample collection activities. Montrose collected three soil samples from mine tailings stockpiles (identified as Tailing A, Tailing B, and Tailing C). Montrose composited the three individual samples into one composite sample (identified as Composite). The soil samples were collected in laboratory provided jars; soil samples selected for laboratory analysis for Volatile Organic Compounds (VOCs) were prepared in accordance with the EPA 5035 sampling method by placing 1-gram aliquots into laboratory provided vials containing preservative to comprise one sample interval. The jars and vials were immediately capped, sealed, labeled, stored in an ice chilled cooler, then delivered to an ELAP-accredited laboratory under chain-of-custody procedures, for the following analysis:

- VOCs and Total Petroleum Hydrocarbons as gasoline (TPHg) by EPA Method 8260B/5035.
- TPH for full carbon-chain speciation (including Gasoline Range Organics [GRO], Diesel Range Organics [DRO] and Oil Range Organics [ORO]), utilizing EPA Method 8015M.
- Polychlorinated biphenyls (PCBs), utilizing EPA Method 8082.
- Semi-Volatile Compounds (SVOCs), utilizing EPA Method 8270C.
- Organochlorine Pesticides (OCPs), utilizing EPA Method 8081A.
- Organophosphorous Pesticides (OPPs), utilizing EPA Method 8141A.
- Chlorinated Herbicides, utilizing EPA Method 8151A.
- California Code of Regulations Title 22 (CAM 17) Metals, utilizing EPA Method 6010B/7470A.

The sample identified as Composite was analyzed for:

- VOCs and TPHg by EPA Method 8260B/5035.
- Hexavalent Chromium, utilizing EPA Method 7199.
- Arsenic/Thallium, utilizing EPA Method 6020.

One additional sample was collected from the surface outside the stockpile (identified as Control) for laboratory analysis of VOCs and TPHg, by EPA Method 8260B/5035.

Soil Sample Analytical Results

- TPHg as analyzed by EPA 8260B was detected in three soil samples, ranging from 0.220 mg/kg in the sample identified as Tailings A, to 0.260 mg/kg in the sample identified as Control. The TPHg detections did not exceed the San Francisco Bay Regional Water Quality Control Board (RWQCB) screening level of 100 mg/kg.
- DRO was detected in the sample identified as Composite, at a concentration of 14 milligrams per kilogram (mg/kg). ORO was detected at concentrations ranging from 29 mg/kg in the sample identified as Tailings B, to 52 mg/kg in the sample identified as Composite sample. The DRO and ORO detections did not exceed the RWQCB screening level of 1,000 mg/kg.
- No other VOCs were detected in the soil samples collected and analyzed.
- Metals including arsenic and lead were detected throughout the site. Since arsenic is naturally occurring, the Department of Toxic Substance Control (DTSC) background soil screening level for arsenic in California is 12.0 mg/kg. Therefore, all detected arsenic concentrations are below the California background screening levels.
- Lead was detected at a concentration of 280 mg/kg in the sample identified as Tailing C, above the DTSC residential screening level of 80 mg/kg.
- All remaining analytical detections of metals were below their respective DTSC or EPA screening levels.
- PCBs, SVOCs, OCPs, OPPs, Chlorinated Herbicides and Hexavalent Chromium were not detected in the samples collected and analyzed.

Conclusions

Based on the soil sample results for the site, the lead detection in the sample identified as Tailings C exceeded the DTSC residential screening level of 80 mg/kg. The lead result does not exceed the industrial screening level of 500 mg/kg. Based on the proposed future use of the property, the detection of lead should be further sampled to determine the extent of impacts. In the event the site is proposed for use in an industrial scenario, the material can be managed onsite during grading. If the proposed usage for the site is residential, the lead impacts in soil at the location of Tailings C should be further delineated for removal from the site prior to site development.

Closure

Montrose appreciates the opportunity to be of service. If there are questions regarding the information contained in this report or if additional information is required, please contact either of the undersigned at (714) 919-6526.

Respectfully submitted,

Chris A. Guesnon, PG, CHG
Senior Geologist

Dane Nygaard
Senior Manager

Attachments:
Soil Sample Locations
Soil Sample Analytical Results Table
Laboratory Analytical Results

Scotts Valley Phase II Sampling

Sample ID: Tailing A **Sampling Date: 6/27/23** **Sampling Time: 0905**

Sample ID: Tailing B Sampling Date: 6/27/23 Sampling Time: 0941

Sample ID: Tailing C Sampling Date: 6/27/23 Sampling Time: 1008

Soil Analytical Results Table
Scotts Valley
Vallejo, California

Soil ID	Sample Date	GRO	DRO	ORO	TPH Gasoline	Mercury	Arsenic	Thallium	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Test Method		**EPA 8015M**			**EPA 8260B**	**EPA 7471A**	**EPA 6020**		**EPA 6010B**															
TALING A	6/27/2023	<9.9	<9.9	**26**	**0.220**	<0.15	**7.2**	<0.97	<2.9 b	**4.7**	**660**	<0.49	<0.49	**55**	**15**	**82**	**27**	<0.97	**91**	<2.9	<0.49	<2.9	**42**	**62**
TAILING B	6/27/2023	<10	<10	**29**	<0.085	<0.16	**10**	<0.99	<3.0 b	**6.9**	**220**	<0.50	<0.50	**50**	**14**	**46**	**25**	<0.99	**86**	<3.0	<0.50	<3.0	**40**	**54**
TAILING C	6/27/2023	<9.9	<9.9	**31**	**0.230**	**0.20**	**8.4**	<0.95	**120**	**5.5**	**2,300**	<0.48	<0.48	**26**	**10**	**150**	**280**	<0.95	**46**	<2.9	<0.48	<2.9	**42**	**48**
COMPOSITE	6/27/2023	<10	**14**	**52**	NA	<0.16	**6.8**	<0.98	<2.9 b	**4.6**	**1,400**	<0.49	<0.49	**43**	**12**	**83**	**43**	<0.98	**76**	<2.9	<0.49	<2.9	**40**	**61**
CONTROL	6/27/2023	NA	NA	NA	**0.260**	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Units		**mg/kg**																						
Regional Screening Levels	**RWQCB**	**100**	**1,000**	**1,000**	**100**	**1**	**12***	**NE**	**NE**	**12***	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**	**NE**
	DTSC	**NE**	**NE**	**NE**	**NE**	**1**	**12***	**NE**	**NE**	**12***	**NE**	**1,600**	**2,100**	**NE**	**NE**	**NE**	**80**	**NE**	**15,000**	**NE**	**390**	**NE**	**390**	**NE**
	EPA	**NE**	**NE**	**NE**	**NE**	**11**	**12***	**0.78**	**31**	**12***	**15,000**	**160**	**71**	**NE**	**23**	**3,100**	**400**	**390**	**1,500**	**390**	**390**	**0.78**	**390**	**23,000**

Notes:

DTSC: Department of Toxic Substances Control screening level for residential soil, cancer endpoint

EPA: Environmental Protection Agency

RWQCB: California Regional Water Quality Control Board

mg/kg: milligrams per kilogram

b = Antimony RSD between exposures exceeds limit in MET09 CCV 673260283142

GRO = gasoline range organics

DRO = diesel range organics

ORO = oil range

TPHg = total petroleum hydrocarbons

* = recognized California background level

NE: Not Established

NA: Not Analyzed

RED: indicates exceedance of respective screening level

Enthalpy Analytical
931 West Barkley Ave
Orange, CA 92868
(714) 771-6900

enthalpy.com

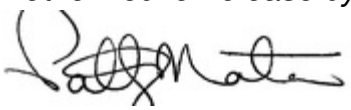
Lab Job Number: 487562
Report Level: II
Report Date: 07/12/2023

Analytical Report *prepared for:*

Dane Nygaard
Montrose Environmental Services
4 Park Plaza
Suite #790
Irvine, CA 92614

Location: Scotts Valley, 222535

Authorized for release by:



Patty Mata, Project Manager
patty.mata@enthalpy.com

This data package has been reviewed for technical correctness and completeness. Release of this data has been authorized by the Laboratory Manager or the Manager's designee, as verified by the above signature which applies to this PDF file as well as any associated electronic data deliverable files. The results contained in this report meet all requirements of NELAP and pertain only to those samples which were submitted for analysis. This report may be reproduced only in its entirety.

CA ELAP# 1338, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105

ENTHALPY ANALYTICAL

Sample Summary

Dane Nygaard
Montrose Environmental Services
4 Park Plaza
Suite #790
Irvine, CA 92614

Lab Job #: 487562
Location: Scotts Valley, 222535
Date Received: 06/27/23

Sample ID	Lab ID	Collected	Matrix
TAILING A	487562-001	06/27/23 09:05	Soil
TAILING B	487562-002	06/27/23 09:41	Soil
TAILING C	487562-003	06/27/23 10:08	Soil
COMPOSITE	487562-004	06/27/23 10:06	Soil
CONTROL	487562-005	06/27/23 10:52	Soil

ENTHALPY ANALYTICAL

Case Narrative

Montrose Environmental Services	Lab Job Number: 487562
4 Park Plaza	Location: Scotts Valley, 222535
Suite #790	Date Received: 06/27/23
Irvine, CA 92614	
Dane Nygaard	

This data package contains sample and QC results for five soil samples, requested for the above referenced project on 06/27/23. The samples were received cold and intact. This is the full report with all requested results other than the Hexavalent Chromium tests for Tailings A, B and C that were cancelled.

TPH-Extractables by GC (EPA 8015M):
No analytical problems were encountered.

Volatile Organics by GC/MS (EPA 8260B):
No analytical problems were encountered.

Semivolatile Organics by GC/MS (EPA 8270C):

- A number of samples were diluted due to the dark color of the sample extracts. Extract color and/or viscosity are used as indicators of possible matrix interference. Elevated reporting limits were due to the necessary dilution.
- No other analytical problems were encountered.

Pesticides (EPA 8081A):
No analytical problems were encountered.

PCBs (EPA 8082):
No analytical problems were encountered.

Metals (EPA 6010B, EPA 6020, and EPA 7471A):

- Low recoveries were observed for antimony in the MS/MSD for batch 317172; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- Antimony RSD between exposures exceeds limit in MET09 CCV 673260283142; affected data was qualified with "b".
- No other analytical problems were encountered.

Hexavalent Chromium by Ion Chromatograph (EPA 7199):

- Low recovery was observed for hexavalent chromium in the matrix spike for batch 317982; the parent sample was not a project sample, and the LCS was within limits.
- No other analytical problems were encountered.

Organophosphorus Pesticides (EPA 8141A):
American Environmental Testing in Burbank, CA performed the analysis (NELAP certified). Please see the American Environmental Testing case narrative.

8151A Chlorinated Herbicides (EPA 8151A):
American Environmental Testing in Burbank, CA performed the analysis (see sublab report section for certifications). Please see the American Environmental Testing case narrative.

ENTHALPY

Enthalpy Analytical - Berkeley
2323 5th Street, Berkeley, CA 94710
Phone 510-486-0900

Chain of Custody Record
Lab No: 487562
Page: 1 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Matrix: A = Air S = Soil/Solid
W = Water DW = Drinking Wate SD = Sediment
PP = Pure Product SEA = Sea Water
SW = Swab T = Tissue WP = Wipe O = Other

Preservatives:
1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3
4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	LEO16	Name:	Scotts Valley
Report To:	Dane Nygaard	Number:	222535
Email:	dnygaard@montrose-env.com	P.O. #:	
Address:	1631 E Saint Andrew Pl	Address:	
	Santa Ana		
Phone:	714-919-6525	Global ID:	
Fax:	714-919-6501	Sampled By:	Cory Blair

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	EPA 8260B/5035 - VOCs	EPA 8015B/5035 - TPH GRO	EPA 8015B - TPH DRO/ORO	EPA 8082 - PCBs	EPA 8270C - SVOCs	EPA 8081 - Organochlorine Pesticides	EPA 6010B/7471 - CAM 17 Metals	EPA 7199 - Hexavalent Chromium	EPA 6020 - Total Arsenic Thallium	EPA 8141 - Organophosphorus Pesticides SIM
1	Tailing A	6-27-23	0905	S	2/16oz + 3VOA	6	X	X	X	X	X	X	X	X	X	X
2	Tailing B	6-27-23	0941	S	2/16oz + 3VOA	6	X	X	X	X	X	X	X	X	X	X
3	Tailing C	6-27-23	1008	S	2/16oz + 3VOA	6	X	X	X	X	X	X	X	X	X	X
4	Composite	6-27-23	1006	S	1 / 16oz	6			X	X	X	X	X	X	X	X
5	Control	6-27-23	1052	S	3 VOA	6	X	X								
6																
7																
8																
9																
10																

Test Instructions / Comments

	Signature	Print Name	Company / Title	Date / Time
1 Relinquished By:		Cory Blair	Montrose / Field Tech	6-27-23 1245
1 Received By:		Miguel Gamboa	EA	6/27/23 1245
2 Relinquished By:				
2 Received By:		G Kim	CA	JUN 28 2023 1000
3 Relinquished By:				
3 Received By:				

ENTHALPY

Chain of Custody Record

Lab No: 487562

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

Standard:	X	5 Day:		3 Day:	
2 Day:		1 Day:		Custom TAT:	

Enthalpy Analytical - Berkeley

2323 5th Street, Berkeley, CA 94710

Phone 510-486-0900

Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Wate SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other

Preservatives: 1 = $Na_2S_2O_3$ 2 = HCl 3 = HNO_3 4 = H_2SO_4 5 = NaOH 6 = Other

Sample Receipt Temp: (lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION	
Company:	LEO16	Name:	Scotts Valley
Report To:	Dane Nygaard	Number:	222535
Email:	dnygaard@montrose-env.com	P.O. #:	
Address:	1631 E Saint Andrew Pl	Address:	
	Santa Ana		
Phone:	714-919-6525	Global ID:	
FAX:	714-919-6501	Sampled By:	Cory Blair

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request: EPA 8151 Chlorinated Herbicides (sub)	Test Instructions / Comments
1	Tailing A	6-27-23	0905	S	2/1602 + 3VOA	6	X	
2	Tailing B	6-27-23	0941	S	2/1602 + 3VOA	6	X	
3	Tailing C	6-27-23	1008	S	2/1602 + 3VOA	6	X	
4	Composite	6-27-23	1006	S	1/1602	6	X	
5	~~Control~~	~~6-27-23~~	~~1052~~	~~S~~	~~3VOA~~	6	CB	
6								
7								
8								
9								
10								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Cory Blair	Montrose / Field Tech	6-27-23 1245
[1] Received By:		Miguel Cordova	EA	6/27/23 1245
[2] Relinquished By:				
[2] Received By:		Gikin	GA	JUN 28 2023 10:10
[3] Relinquished By:				
[3] Received By:				

SAMPLE RECEIPT CHECKLIST

Section 1: Login # 487562 Client: Montrose

Date Received: 6/17/23 Project: _____

ENTHALPY

Section 2: Shipping info (if applicable) _____

Are custody seals present? ☑ No, or ☐ Yes. If yes, where? ☐ on cooler, ☐ on samples, ☐ on package

☐ Date: _____ How many _____ ☐ Signature, ☐ Initials, ☐ None

Were custody seals intact upon arrival? ☐ Yes ☐ No ☐ N/A

Samples received in a cooler? ☑ Yes, how many? 1 ☐ No (**skip Section 3 below**)

If no cooler Sample Temp (°C): _____ using IR Gun # ☐ B, or ☐ C

☑ Samples received on ice directly from the field. Cooling process had begun

If in cooler: Date Opened 6/17/23 By (print) MY _____ (sign) _____

Section 3: ***Important*: Notify PM if temperature exceeds 6°C or arrive frozen.**

Packing in cooler: (if other, describe) _____

☐ Bubble Wrap, ☐ Foam blocks, ☑ Bags, ☐ None, ☐ Cloth material, ☐ Cardboard, ☐ Styrofoam, ☐ Paper towels

☑ Samples received on ice directly from the field. Cooling process had begun

Type of ice used : ☑ Wet, ☐ Blue/Gel, ☐ None Temperature blank(s) included? ☐ Yes, ☐ No

Temperature measured using ☐ Thermometer ID: _____, or IR Gun # ☐ B ☐ C

Cooler Temp (°C): #1: _____, #2: _____, #3: _____, #4: _____, #5: _____, #6: _____, #7: _____

Section 4:	YES	NO	N/A
Were custody papers dry, filled out properly, and the project identifiable	✓		
Were Method 5035 sampling containers present?	✓		
If YES, what time were they transferred to freezer? ~~4~~ 14:30			
Did all bottles arrive unbroken/unopened?	✓		
Are there any missing / extra samples?		✓	
Are samples in the appropriate containers for indicated tests?	✓		
Are sample labels present, in good condition and complete?	✓		
Does the container count match the COC?	✓		
Do the sample labels agree with custody papers?	✓		
Was sufficient amount of sample sent for tests requested?	✓		
Did you change the hold time in LIMS for unpreserved VOAs?			✓
Did you change the hold time in LIMS for preserved terracores?			✓
Are bubbles > 6mm present in VOA samples?			
Was the client contacted concerning this sample delivery?		✓	
If YES, who was called? _____ By _____ Date: _____			

Section 5:	YES	NO	N/A
Are the samples appropriately preserved? (if N/A, skip the rest of section 5)			
Did you check preservatives for all bottles for each sample?			
Did you document your preservative check?			

pH strip lot# _____, pH strip lot# _____, pH strip lot# _____

Preservative added:

☐ H2SO4 lot# _____ added to samples _____ on/at _____

☐ HCL lot# _____ added to samples _____ on/at _____

☐ HNO3 lot# _____ added to samples _____ on/at _____

☐ NaOH lot# _____ added to samples _____ on/at _____

Section 6:

Explanations/Comments: _____

Date Logged in 6/22/23 **By (print)** MY **(sign)** _____

Date Labeled 6-22-23 **By (print)** ABH **(sign)** _____

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: Montrose Project: Scotts Valley, 222535

Date Received: 6/28/23 Sampler's Name Present: ☐ Yes ☐ No

Section 2

Sample(s) received in a cooler? ☑ Yes, How many? 1 ☐ No (skip section 2) Sample Temp (°C) (No Cooler): _____

Sample Temp (°C), One from each cooler: #1: 5.1 #2: _____ #3: _____ #4: _____

(Acceptance range is < 6°C but not frozen (for Microbiology samples, acceptance range is < 10°C but not frozen). It is acceptable for samples collected the same day as sample receipt to have a higher temperature as long as there is evidence that cooling has begun.)

Shipping Information: _____

Section 3

Was the cooler packed with: ☑ Ice ☐ Ice Packs ☐ Bubble Wrap ☐ Styrofoam ☐ Paper ☐ None ☐ Other _____

Cooler Temp (°C): #1: 5.0 #2: _____ #3: _____ #4: _____

Section 4	YES	NO	N/A
Was a COC received?	✔		
Are sample IDs present?	✔		
Are sampling dates & times present?	✔		
Is a relinquished signature present?	✔		
Are the tests required clearly indicated on the COC?	✔		
Are custody seals present?	✔		
If custody seals are present, were they intact?	✔		
Are all samples sealed in plastic bags? (Recommended for Microbiology samples)			✔
Did all samples arrive intact? If no, indicate in Section 4 below.	✔		
Did all bottle labels agree with COC? (ID, dates and times)	✔		
Were the samples collected in the correct containers for the required tests?	✔		
Are the containers labeled with the correct preservatives?	✔		
Is there headspace in the VOA vials greater than 5-6 mm in diameter?			✔
Was a sufficient amount of sample submitted for the requested tests?	✔		

Section 5 Explanations/Comments

487562

8141 and 8151 subbed by Berk.

Section 6

For discrepancies, how was the Project Manager notified? ☐ Verbal PM Initials: _____ Date/Time _____

☐ Email (email sent to/on): _____ / _____

Project Manager's response:

Completed By: _____ Date: 6/28/23

SOUTHWEST AIRLINES

Printed on:
27 JUN 19:13

526 OAK 9007 5974

SNA

P10.10

PC# 5 OF 6 | DG G | LOT WT 205 LB (92.9 KG)

OAK WN 776 28 JUN 08:25

STN FLT DATE ETD LOT 01

PC ID: 0005
PC WT: 34LB

526 90075974 0005

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[redacted]

24L x 16W x 14H

EVIDENCE TAPE

30/5.1

ENTHALPY ANALYTICAL

Analysis Results for 487562

Dane Nygaard
Montrose Environmental Services
4 Park Plaza
Suite #790
Irvine, CA 92614

Lab Job #: 487562
Location: Scotts Valley, 222535
Date Received: 06/27/23

Sample ID: TAILING A **Lab ID: 487562-001** **Collected: 06/27/23 09:05**
Matrix: Soil

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND	b	mg/Kg	2.9	0.97	317172	06/28/23	06/30/23	SBW
Arsenic	**4.7**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Barium	**660**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Beryllium	ND		mg/Kg	0.49	0.97	317172	06/28/23	06/30/23	SBW
Cadmium	ND		mg/Kg	0.49	0.97	317172	06/28/23	06/30/23	SBW
Chromium	**55**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Cobalt	**15**		mg/Kg	0.49	0.97	317172	06/28/23	06/30/23	SBW
Copper	**82**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Lead	**27**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Molybdenum	ND		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Nickel	**91**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Selenium	ND		mg/Kg	2.9	0.97	317172	06/28/23	06/30/23	SBW
Silver	ND		mg/Kg	0.49	0.97	317172	06/28/23	06/30/23	SBW
Thallium	ND		mg/Kg	2.9	0.97	317172	06/28/23	06/30/23	SBW
Vanadium	**42**		mg/Kg	0.97	0.97	317172	06/28/23	06/30/23	SBW
Zinc	**62**		mg/Kg	4.9	0.97	317172	06/28/23	06/30/23	SBW
Method: EPA 6020 Prep Method: EPA 3050B									
Arsenic	**7.2**		mg/Kg	0.97	0.97	317663	06/28/23	07/07/23	THP
Thallium	ND		mg/Kg	0.97	0.97	317663	06/28/23	07/07/23	THP
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.15	1.1	317216	06/29/23	06/29/23	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	317357	06/30/23	07/05/23	BJG
DRO C10-C28	ND		mg/Kg	9.9	0.99	317357	06/30/23	07/05/23	BJG
ORO C28-C44	**26**		mg/Kg	20	0.99	317357	06/30/23	07/05/23	BJG
Surrogates				**Limits**					
n-Triacontane	98%		%REC	70-130	0.99	317357	06/30/23	07/05/23	BJG
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
beta-BHC	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
gamma-BHC	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
delta-BHC	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Heptachlor	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Aldrin	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan I	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Dieldrin	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endrin	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan II	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Endrin ketone	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	0.99	317303	06/30/23	06/30/23	TRN
Methoxychlor	ND		ug/Kg	9.9	0.99	317303	06/30/23	06/30/23	TRN
Toxaphene	ND		ug/Kg	99	0.99	317303	06/30/23	06/30/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
TCMX	79%		%REC	23-120	0.99	317303	06/30/23	06/30/23	TRN
Decachlorobiphenyl	65%		%REC	24-120	0.99	317303	06/30/23	06/30/23	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1221	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1232	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1242	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1248	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1254	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1260	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1262	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1268	ND		ug/Kg	50	0.99	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	78%		%REC	19-121	0.99	317303	06/30/23	06/30/23	TRN
Method: EPA 8260B Prep Method: EPA 5035									
TPH Gasoline	**220**		ug/Kg	89	0.89	317395	07/01/23	07/01/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/Kg	13	0.89	317395	07/01/23	07/01/23	LYZ
Freon 12	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Chloromethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
3-Chloropropene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Vinyl Chloride	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Bromomethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Chloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Acetone	ND		ug/Kg	89	0.89	317395	07/01/23	07/01/23	LYZ
Freon 113	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Methylene Chloride	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
MTBE	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
2-Butanone	ND		ug/Kg	89	0.89	317395	07/01/23	07/01/23	LYZ
cis-1,2-Dichloroethene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Chloroform	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Bromochloromethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Benzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Trichloroethene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Bromodichloromethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Dibromomethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	89	0.89	317395	07/01/23	07/01/23	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Toluene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,3-Dichloropropane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Tetrachloroethene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Dibromochloromethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dibromoethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Chlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Ethylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
m,p-Xylenes	ND		ug/Kg	8.9	0.89	317395	07/01/23	07/01/23	LYZ
o-Xylene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Styrene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Bromoform	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Isopropylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Propylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Bromobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3,5-Trimethylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
2-Chlorotoluene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
4-Chlorotoluene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
tert-Butylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
sec-Butylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
para-Isopropyl Toluene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
n-Butylbenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Naphthalene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Xylene (total)	ND		ug/Kg	4.5	0.89	317395	07/01/23	07/01/23	LYZ
Surrogates				**Limits**					
Dibromofluoromethane	101%		%REC	70-145	0.89	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane-d4	112%		%REC	70-145	0.89	317395	07/01/23	07/01/23	LYZ
Toluene-d8	102%		%REC	70-145	0.89	317395	07/01/23	07/01/23	LYZ
Bromofluorobenzene	103%		%REC	70-145	0.89	317395	07/01/23	07/01/23	LYZ
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1-Methylnaphthalene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Pyridine	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
N-Nitrosodimethylamine	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Phenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Aniline	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
2-Chlorophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1,3-Dichlorobenzene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1,4-Dichlorobenzene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzyl alcohol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1,2-Dichlorobenzene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2-Methylphenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
3-,4-Methylphenol	ND		ug/Kg	2,000	5	317254	06/29/23	06/29/23	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Hexachloroethane	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Nitrobenzene	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
Isophorone	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2-Nitrophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,4-Dimethylphenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzoic acid	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
bis(2-Chloroethoxy)methane	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,4-Dichlorophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Naphthalene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4-Chloroaniline	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Hexachlorobutadiene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2-Methylnaphthalene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2-Chloronaphthalene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2-Nitroaniline	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Dimethylphthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Acenaphthylene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,6-Dinitrotoluene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
3-Nitroaniline	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Acenaphthene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,4-Dinitrophenol	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
4-Nitrophenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Dibenzofuran	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
2,4-Dinitrotoluene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Diethylphthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Fluorene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4-Nitroaniline	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Hexachlorobenzene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Pentachlorophenol	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
Phenanthrene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Anthracene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Di-n-butylphthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Fluoranthene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzidine	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
Pyrene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Butylbenzylphthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	6,000	5	317254	06/29/23	06/29/23	TJW
Benzo(a)anthracene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Chrysene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Di-n-octylphthalate	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzo(b)fluoranthene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzo(k)fluoranthene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-001 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Benzo(a)pyrene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	1,300	5	317254	06/29/23	06/29/23	TJW
Surrogates				**Limits**					
2-Fluorophenol	66%		%REC	29-120	5	317254	06/29/23	06/29/23	TJW
Phenol-d6	69%		%REC	30-120	5	317254	06/29/23	06/29/23	TJW
2,4,6-Tribromophenol	47%		%REC	32-120	5	317254	06/29/23	06/29/23	TJW
Nitrobenzene-d5	83%		%REC	33-120	5	317254	06/29/23	06/29/23	TJW
2-Fluorobiphenyl	78%		%REC	39-120	5	317254	06/29/23	06/29/23	TJW
Terphenyl-d14	76%		%REC	44-125	5	317254	06/29/23	06/29/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

Sample ID: TAILING B	Lab ID: 487562-002	Collected: 06/27/23 09:41
	Matrix: Soil	

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND	b	mg/Kg	3.0	0.99	317172	06/28/23	06/30/23	SBW
Arsenic	**6.9**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Barium	**220**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Beryllium	ND		mg/Kg	0.50	0.99	317172	06/28/23	06/30/23	SBW
Cadmium	ND		mg/Kg	0.50	0.99	317172	06/28/23	06/30/23	SBW
Chromium	**50**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Cobalt	**14**		mg/Kg	0.50	0.99	317172	06/28/23	06/30/23	SBW
Copper	**46**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Lead	**25**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Molybdenum	ND		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Nickel	**86**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Selenium	ND		mg/Kg	3.0	0.99	317172	06/28/23	06/30/23	SBW
Silver	ND		mg/Kg	0.50	0.99	317172	06/28/23	06/30/23	SBW
Thallium	ND		mg/Kg	3.0	0.99	317172	06/28/23	06/30/23	SBW
Vanadium	**40**		mg/Kg	0.99	0.99	317172	06/28/23	06/30/23	SBW
Zinc	**54**		mg/Kg	5.0	0.99	317172	06/28/23	06/30/23	SBW
Method: EPA 6020 Prep Method: EPA 3050B									
Arsenic	**10**		mg/Kg	0.99	0.99	317663	06/28/23	07/07/23	THP
Thallium	ND		mg/Kg	0.99	0.99	317663	06/28/23	07/07/23	THP
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	317216	06/29/23	06/29/23	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	317357	06/30/23	07/05/23	BJG
DRO C10-C28	ND		mg/Kg	10	1	317357	06/30/23	07/05/23	BJG
ORO C28-C44	**29**		mg/Kg	20	1	317357	06/30/23	07/05/23	BJG
Surrogates				**Limits**					
n-Triacontane	97%		%REC	70-130	1	317357	06/30/23	07/05/23	BJG
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
beta-BHC	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
gamma-BHC	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
delta-BHC	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Heptachlor	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Aldrin	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan I	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dieldrin	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endrin	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan II	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Endrin ketone	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	0.99	317303	06/30/23	06/30/23	TRN
Methoxychlor	ND		ug/Kg	9.9	0.99	317303	06/30/23	06/30/23	TRN
Toxaphene	ND		ug/Kg	99	0.99	317303	06/30/23	06/30/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
TCMX	68%		%REC	23-120	0.99	317303	06/30/23	06/30/23	TRN
Decachlorobiphenyl	53%		%REC	24-120	0.99	317303	06/30/23	06/30/23	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1221	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1232	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1242	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1248	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1254	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1260	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1262	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Aroclor-1268	ND		ug/Kg	49	0.99	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	64%		%REC	19-121	0.99	317303	06/30/23	06/30/23	TRN
Method: EPA 8260B Prep Method: EPA 5035									
TPH Gasoline	ND		ug/Kg	85	0.85	317395	07/01/23	07/01/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/Kg	13	0.85	317395	07/01/23	07/01/23	LYZ
Freon 12	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Chloromethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
3-Chloropropene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Vinyl Chloride	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Bromomethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Chloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Acetone	ND		ug/Kg	85	0.85	317395	07/01/23	07/01/23	LYZ
Freon 113	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,1-Dichloroethene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Methylene Chloride	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
MTBE	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
2-Butanone	ND		ug/Kg	85	0.85	317395	07/01/23	07/01/23	LYZ
cis-1,2-Dichloroethene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Chloroform	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Bromochloromethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Benzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Trichloroethene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Bromodichloromethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Dibromomethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	85	0.85	317395	07/01/23	07/01/23	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Toluene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,3-Dichloropropane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Tetrachloroethene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Dibromochloromethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dibromoethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Chlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Ethylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
m,p-Xylenes	ND		ug/Kg	8.5	0.85	317395	07/01/23	07/01/23	LYZ
o-Xylene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Styrene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Bromoform	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Isopropylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Propylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Bromobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
2-Chlorotoluene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
4-Chlorotoluene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
tert-Butylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
sec-Butylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

Analysis Results for 487562

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
para-Isopropyl Toluene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
n-Butylbenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Naphthalene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Xylene (total)	ND		ug/Kg	4.2	0.85	317395	07/01/23	07/01/23	LYZ
Surrogates				**Limits**					
Dibromofluoromethane	100%		%REC	70-145	0.85	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane-d4	110%		%REC	70-145	0.85	317395	07/01/23	07/01/23	LYZ
Toluene-d8	100%		%REC	70-145	0.85	317395	07/01/23	07/01/23	LYZ
Bromofluorobenzene	100%		%REC	70-145	0.85	317395	07/01/23	07/01/23	LYZ
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1-Methylnaphthalene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Pyridine	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
N-Nitrosodimethylamine	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Phenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Aniline	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
2-Chlorophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1,3-Dichlorobenzene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1,4-Dichlorobenzene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzyl alcohol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1,2-Dichlorobenzene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2-Methylphenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
3-,4-Methylphenol	ND		ug/Kg	2,000	5.1	317254	06/29/23	06/30/23	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Hexachloroethane	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Nitrobenzene	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
Isophorone	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2-Nitrophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,4-Dimethylphenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzoic acid	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,4-Dichlorophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Naphthalene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
4-Chloroaniline	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Hexachlorobutadiene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chloro-3-methylphenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2-Methylnaphthalene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2-Chloronaphthalene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2-Nitroaniline	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Dimethylphthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Acenaphthylene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,6-Dinitrotoluene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
3-Nitroaniline	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Acenaphthene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,4-Dinitrophenol	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
4-Nitrophenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Dibenzofuran	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
2,4-Dinitrotoluene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Diethylphthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Fluorene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
4-Nitroaniline	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Hexachlorobenzene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Pentachlorophenol	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
Phenanthrene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Anthracene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Di-n-butylphthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Fluoranthene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzidine	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
Pyrene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Butylbenzylphthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	6,100	5.1	317254	06/29/23	06/30/23	TJW
Benzo(a)anthracene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Chrysene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Di-n-octylphthalate	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzo(b)fluoranthene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzo(k)fluoranthene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzo(a)pyrene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	1,300	5.1	317254	06/29/23	06/30/23	TJW
Surrogates				**Limits**					
2-Fluorophenol	67%		%REC	29-120	5.1	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-002 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Phenol-d6	68%		%REC	30-120	5.1	317254	06/29/23	06/30/23	TJW
2,4,6-Tribromophenol	52%		%REC	32-120	5.1	317254	06/29/23	06/30/23	TJW
Nitrobenzene-d5	78%		%REC	33-120	5.1	317254	06/29/23	06/30/23	TJW
2-Fluorobiphenyl	74%		%REC	39-120	5.1	317254	06/29/23	06/30/23	TJW
Terphenyl-d14	77%		%REC	44-125	5.1	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

Sample ID: TAILING C	Lab ID: 487562-003	Collected: 06/27/23 10:08
	Matrix: Soil	

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	**120**		mg/Kg	29	9.5	317172	06/28/23	07/06/23	SBW
Arsenic	**5.5**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Barium	**2,300**		mg/Kg	9.5	9.5	317172	06/28/23	07/05/23	SBW
Beryllium	ND		mg/Kg	0.48	0.95	317172	06/28/23	06/30/23	SBW
Cadmium	ND		mg/Kg	0.48	0.95	317172	06/28/23	06/30/23	SBW
Chromium	**26**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Cobalt	**10**		mg/Kg	0.48	0.95	317172	06/28/23	06/30/23	SBW
Copper	**150**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Lead	**280**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Molybdenum	ND		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Nickel	**46**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Selenium	ND		mg/Kg	2.9	0.95	317172	06/28/23	06/30/23	SBW
Silver	ND		mg/Kg	0.48	0.95	317172	06/28/23	06/30/23	SBW
Thallium	ND		mg/Kg	2.9	0.95	317172	06/28/23	06/30/23	SBW
Vanadium	**42**		mg/Kg	0.95	0.95	317172	06/28/23	06/30/23	SBW
Zinc	**48**		mg/Kg	4.8	0.95	317172	06/28/23	06/30/23	SBW
Method: EPA 6020 Prep Method: EPA 3050B									
Arsenic	**8.4**		mg/Kg	0.95	0.95	317663	06/28/23	07/07/23	THP
Thallium	ND		mg/Kg	0.95	0.95	317663	06/28/23	07/07/23	THP
Method: EPA 7471A Prep Method: METHOD									
Mercury	**0.20**		mg/Kg	0.14	1	317216	06/29/23	06/29/23	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	9.9	0.99	317357	06/30/23	07/05/23	BJG
DRO C10-C28	ND		mg/Kg	9.9	0.99	317357	06/30/23	07/05/23	BJG
ORO C28-C44	**31**		mg/Kg	20	0.99	317357	06/30/23	07/05/23	BJG
Surrogates				**Limits**					
n-Triacontane	95%		%REC	70-130	0.99	317357	06/30/23	07/05/23	BJG
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
beta-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
gamma-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
delta-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Heptachlor	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Aldrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan I	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN

Results for any subcontracted analyses are not included in this section.

Analysis Results for 487562

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Dieldrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan II	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin ketone	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Methoxychlor	ND		ug/Kg	9.8	0.98	317303	06/30/23	06/30/23	TRN
Toxaphene	ND		ug/Kg	98	0.98	317303	06/30/23	06/30/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
TCMX	77%		%REC	23-120	0.98	317303	06/30/23	06/30/23	TRN
Decachlorobiphenyl	70%		%REC	24-120	0.98	317303	06/30/23	06/30/23	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1221	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1232	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1242	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1248	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1254	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1260	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1262	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1268	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	86%		%REC	19-121	0.98	317303	06/30/23	06/30/23	TRN
Method: EPA 8260B Prep Method: EPA 5035									
TPH Gasoline	**230**		ug/Kg	96	0.96	317395	07/01/23	07/01/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/Kg	14	0.96	317395	07/01/23	07/01/23	LYZ
Freon 12	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Chloromethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
3-Chloropropene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Vinyl Chloride	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Bromomethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Chloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Acetone	ND		ug/Kg	96	0.96	317395	07/01/23	07/01/23	LYZ
Freon 113	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,1-Dichloroethene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Methylene Chloride	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
MTBE	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
2-Butanone	ND		ug/Kg	96	0.96	317395	07/01/23	07/01/23	LYZ
cis-1,2-Dichloroethene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Chloroform	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Bromochloromethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Benzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Trichloroethene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Bromodichloromethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Dibromomethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	96	0.96	317395	07/01/23	07/01/23	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Toluene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,3-Dichloropropane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Tetrachloroethene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Dibromochloromethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dibromoethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Chlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Ethylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
m,p-Xylenes	ND		ug/Kg	9.6	0.96	317395	07/01/23	07/01/23	LYZ
o-Xylene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Styrene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Bromoform	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Isopropylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Propylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Bromobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
2-Chlorotoluene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
4-Chlorotoluene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
tert-Butylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
sec-Butylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
para-Isopropyl Toluene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
n-Butylbenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Naphthalene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Xylene (total)	ND		ug/Kg	4.8	0.96	317395	07/01/23	07/01/23	LYZ
Surrogates				**Limits**					
Dibromofluoromethane	102%		%REC	70-145	0.96	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane-d4	112%		%REC	70-145	0.96	317395	07/01/23	07/01/23	LYZ
Toluene-d8	101%		%REC	70-145	0.96	317395	07/01/23	07/01/23	LYZ
Bromofluorobenzene	97%		%REC	70-145	0.96	317395	07/01/23	07/01/23	LYZ
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1-Methylnaphthalene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Pyridine	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
N-Nitrosodimethylamine	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Phenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Aniline	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
2-Chlorophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1,3-Dichlorobenzene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1,4-Dichlorobenzene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzyl alcohol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1,2-Dichlorobenzene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2-Methylphenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
bis(2-Chloroisopropyl) ether	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
3-,4-Methylphenol	ND		ug/Kg	800	2	317254	06/29/23	06/30/23	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Hexachloroethane	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Nitrobenzene	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
Isophorone	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2-Nitrophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,4-Dimethylphenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzoic acid	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,4-Dichlorophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Naphthalene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
4-Chloroaniline	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Hexachlorobutadiene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

Analysis Results for 487562

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
4-Chloro-3-methylphenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2-Methylnaphthalene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2-Chloronaphthalene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2-Nitroaniline	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Dimethylphthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Acenaphthylene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,6-Dinitrotoluene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
3-Nitroaniline	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Acenaphthene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,4-Dinitrophenol	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
4-Nitrophenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Dibenzofuran	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
2,4-Dinitrotoluene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Diethylphthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Fluorene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
4-Nitroaniline	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Hexachlorobenzene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Pentachlorophenol	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
Phenanthrene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Anthracene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Di-n-butylphthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Fluoranthene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzidine	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
Pyrene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Butylbenzylphthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	2,400	2	317254	06/29/23	06/30/23	TJW
Benzo(a)anthracene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Chrysene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Di-n-octylphthalate	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzo(b)fluoranthene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzo(k)fluoranthene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzo(a)pyrene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	500	2	317254	06/29/23	06/30/23	TJW
Surrogates				**Limits**					
2-Fluorophenol	55%		%REC	29-120	2	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-003 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Phenol-d6	60%		%REC	30-120	2	317254	06/29/23	06/30/23	TJW
2,4,6-Tribromophenol	49%		%REC	32-120	2	317254	06/29/23	06/30/23	TJW
Nitrobenzene-d5	79%		%REC	33-120	2	317254	06/29/23	06/30/23	TJW
2-Fluorobiphenyl	75%		%REC	39-120	2	317254	06/29/23	06/30/23	TJW
Terphenyl-d14	76%		%REC	44-125	2	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

Sample ID: COMPOSITE	Lab ID: 487562-004	Collected: 06/27/23 10:06
	Matrix: Soil	

487562-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6010B Prep Method: EPA 3050B									
Antimony	ND	b	mg/Kg	2.9	0.98	317172	06/28/23	06/30/23	SBW
Arsenic	**4.6**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Barium	**1,400**		mg/Kg	9.8	9.8	317172	06/28/23	07/05/23	SBW
Beryllium	ND		mg/Kg	0.49	0.98	317172	06/28/23	06/30/23	SBW
Cadmium	ND		mg/Kg	0.49	0.98	317172	06/28/23	06/30/23	SBW
Chromium	**43**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Cobalt	**12**		mg/Kg	0.49	0.98	317172	06/28/23	06/30/23	SBW
Copper	**83**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Lead	**43**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Molybdenum	ND		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Nickel	**76**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Selenium	ND		mg/Kg	2.9	0.98	317172	06/28/23	06/30/23	SBW
Silver	ND		mg/Kg	0.49	0.98	317172	06/28/23	06/30/23	SBW
Thallium	ND		mg/Kg	2.9	0.98	317172	06/28/23	06/30/23	SBW
Vanadium	**40**		mg/Kg	0.98	0.98	317172	06/28/23	06/30/23	SBW
Zinc	**61**		mg/Kg	4.9	0.98	317172	06/28/23	06/30/23	SBW
Method: EPA 6020 Prep Method: EPA 3050B									
Arsenic	**6.8**		mg/Kg	0.98	0.98	317663	06/28/23	07/07/23	THP
Thallium	ND		mg/Kg	0.98	0.98	317663	06/28/23	07/07/23	THP
Method: EPA 7199 Prep Method: METHOD									
Hexavalent Chromium	ND		mg/Kg	0.40	1	317982	07/12/23 11:03	07/12/23 16:34	PAS
Method: EPA 7471A Prep Method: METHOD									
Mercury	ND		mg/Kg	0.16	1.1	317216	06/29/23	06/29/23	KAM
Method: EPA 8015M Prep Method: EPA 3580M									
GRO C8-C10	ND		mg/Kg	10	1	317357	06/30/23	07/05/23	BJG
DRO C10-C28	**14**		mg/Kg	10	1	317357	06/30/23	07/05/23	BJG
ORO C28-C44	**52**		mg/Kg	20	1	317357	06/30/23	07/05/23	BJG
Surrogates				**Limits**					
n-Triacontane	102%		%REC	70-130	1	317357	06/30/23	07/05/23	BJG
Method: EPA 8081A Prep Method: EPA 3546									
alpha-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
beta-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
gamma-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
delta-BHC	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Heptachlor	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Aldrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan I	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Dieldrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan II	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Endrin ketone	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	0.98	317303	06/30/23	06/30/23	TRN
Methoxychlor	ND		ug/Kg	9.8	0.98	317303	06/30/23	06/30/23	TRN
Toxaphene	ND		ug/Kg	98	0.98	317303	06/30/23	06/30/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
TCMX	69%		%REC	23-120	0.98	317303	06/30/23	06/30/23	TRN
Decachlorobiphenyl	63%		%REC	24-120	0.98	317303	06/30/23	06/30/23	TRN
Method: EPA 8082 Prep Method: EPA 3546									
Aroclor-1016	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1221	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1232	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1242	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1248	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1254	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1260	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1262	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Aroclor-1268	ND		ug/Kg	49	0.98	317303	06/30/23	06/30/23	TRN
Surrogates				**Limits**					
Decachlorobiphenyl (PCB)	76%		%REC	19-121	0.98	317303	06/30/23	06/30/23	TRN
Method: EPA 8270C Prep Method: EPA 3546									
Carbazole	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1-Methylnaphthalene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Pyridine	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
N-Nitrosodimethylamine	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Phenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Aniline	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethyl)ether	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
2-Chlorophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1,3-Dichlorobenzene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1,4-Dichlorobenzene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzyl alcohol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1,2-Dichlorobenzene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2-Methylphenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
bis(2-Chloroisopropyl) ether	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
3-,4-Methylphenol	ND		ug/Kg	4,000	10	317254	06/29/23	06/30/23	TJW
N-Nitroso-di-n-propylamine	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Hexachloroethane	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Nitrobenzene	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
Isophorone	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2-Nitrophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,4-Dimethylphenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzoic acid	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
bis(2-Chloroethoxy)methane	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,4-Dichlorophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1,2,4-Trichlorobenzene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Naphthalene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4-Chloroaniline	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Hexachlorobutadiene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4-Chloro-3-methylphenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2-Methylnaphthalene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Hexachlorocyclopentadiene	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
2,4,6-Trichlorophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,4,5-Trichlorophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2-Chloronaphthalene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2-Nitroaniline	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Dimethylphthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Acenaphthylene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,6-Dinitrotoluene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
3-Nitroaniline	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Acenaphthene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,4-Dinitrophenol	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
4-Nitrophenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Dibenzofuran	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
2,4-Dinitrotoluene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Diethylphthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Fluorene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4-Chlorophenyl-phenylether	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4-Nitroaniline	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4,6-Dinitro-2-methylphenol	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
N-Nitrosodiphenylamine	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
4-Bromophenyl-phenylether	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Hexachlorobenzene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Pentachlorophenol	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
Phenanthrene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Anthracene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Di-n-butylphthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Fluoranthene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzidine	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-004 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Pyrene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Butylbenzylphthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
3,3'-Dichlorobenzidine	ND		ug/Kg	12,000	10	317254	06/29/23	06/30/23	TJW
Benzo(a)anthracene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Chrysene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Di-n-octylphthalate	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzo(b)fluoranthene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzo(k)fluoranthene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzo(a)pyrene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Dibenz(a,h)anthracene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Benzo(g,h,i)perylene	ND		ug/Kg	2,500	10	317254	06/29/23	06/30/23	TJW
Surrogates				**Limits**					
2-Fluorophenol	78%		%REC	29-120	10	317254	06/29/23	06/30/23	TJW
Phenol-d6	80%		%REC	30-120	10	317254	06/29/23	06/30/23	TJW
2,4,6-Tribromophenol	60%		%REC	32-120	10	317254	06/29/23	06/30/23	TJW
Nitrobenzene-d5	93%		%REC	33-120	10	317254	06/29/23	06/30/23	TJW
2-Fluorobiphenyl	84%		%REC	39-120	10	317254	06/29/23	06/30/23	TJW
Terphenyl-d14	85%		%REC	44-125	10	317254	06/29/23	06/30/23	TJW

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

Sample ID: CONTROL	Lab ID: 487562-005	Collected: 06/27/23 10:52
	Matrix: Soil	

487562-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5035									
TPH Gasoline	**260**		ug/Kg	95	0.95	317395	07/01/23	07/01/23	LYZ
Isopropyl Ether (DIPE)	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
tert-Butyl Alcohol (TBA)	ND		ug/Kg	14	0.95	317395	07/01/23	07/01/23	LYZ
Freon 12	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Chloromethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
3-Chloropropene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
cis-1,4-Dichloro-2-butene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
trans-1,4-Dichloro-2-butene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Vinyl Chloride	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Bromomethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Chloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Trichlorofluoromethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Acetone	ND		ug/Kg	95	0.95	317395	07/01/23	07/01/23	LYZ
Freon 113	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Methylene Chloride	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
MTBE	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
trans-1,2-Dichloroethene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1-Dichloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
2-Butanone	ND		ug/Kg	95	0.95	317395	07/01/23	07/01/23	LYZ
cis-1,2-Dichloroethene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
2,2-Dichloropropane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Chloroform	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Bromochloromethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1,1-Trichloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1-Dichloropropene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Carbon Tetrachloride	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Benzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Trichloroethene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dichloropropane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Bromodichloromethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Dibromomethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
4-Methyl-2-Pentanone	ND		ug/Kg	95	0.95	317395	07/01/23	07/01/23	LYZ
cis-1,3-Dichloropropene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Toluene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
trans-1,3-Dichloropropene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1,2-Trichloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Analysis Results for 487562

487562-005 Analyte	Result	Qual	Units	RL	DF	Batch	Prepared	Analyzed	Chemist
1,3-Dichloropropane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Tetrachloroethene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Dibromochloromethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dibromoethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Chlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1,1,2-Tetrachloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Ethylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
m,p-Xylenes	ND		ug/Kg	9.5	0.95	317395	07/01/23	07/01/23	LYZ
o-Xylene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Styrene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Bromoform	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Isopropylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,1,2,2-Tetrachloroethane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichloropropane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Propylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Bromobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,3,5-Trimethylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
2-Chlorotoluene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
4-Chlorotoluene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
tert-Butylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2,4-Trimethylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
sec-Butylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
para-Isopropyl Toluene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,3-Dichlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,4-Dichlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
n-Butylbenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dichlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2,4-Trichlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Hexachlorobutadiene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Naphthalene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
1,2,3-Trichlorobenzene	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Xylene (total)	ND		ug/Kg	4.7	0.95	317395	07/01/23	07/01/23	LYZ
Surrogates				**Limits**					
Dibromofluoromethane	101%		%REC	70-145	0.95	317395	07/01/23	07/01/23	LYZ
1,2-Dichloroethane-d4	114%		%REC	70-145	0.95	317395	07/01/23	07/01/23	LYZ
Toluene-d8	100%		%REC	70-145	0.95	317395	07/01/23	07/01/23	LYZ
Bromofluorobenzene	103%		%REC	70-145	0.95	317395	07/01/23	07/01/23	LYZ

ND Not Detected
b See narrative

Results for any subcontracted analyses are not included in this section.

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1076627	Batch: 317172
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1076627 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Antimony	ND		mg/Kg	3.0	06/28/23	07/05/23
Arsenic	ND		mg/Kg	1.0	06/28/23	06/30/23
Barium	ND		mg/Kg	1.0	06/28/23	06/30/23
Beryllium	ND		mg/Kg	0.50	06/28/23	06/30/23
Cadmium	ND		mg/Kg	0.50	06/28/23	06/30/23
Chromium	ND		mg/Kg	1.0	06/28/23	06/30/23
Cobalt	ND		mg/Kg	0.50	06/28/23	06/30/23
Copper	ND		mg/Kg	1.0	06/28/23	06/30/23
Lead	ND		mg/Kg	1.0	06/28/23	06/30/23
Molybdenum	ND		mg/Kg	1.0	06/28/23	06/30/23
Nickel	ND		mg/Kg	1.0	06/28/23	06/30/23
Selenium	ND		mg/Kg	3.0	06/28/23	06/30/23
Silver	ND		mg/Kg	0.50	06/28/23	06/30/23
Thallium	ND		mg/Kg	3.0	06/28/23	06/30/23
Vanadium	ND		mg/Kg	1.0	06/28/23	06/30/23
Zinc	ND		mg/Kg	5.0	06/28/23	06/30/23

Type: Lab Control Sample	Lab ID: QC1076628	Batch: 317172
Matrix: Soil	Method: EPA 6010B	Prep Method: EPA 3050B

QC1076628 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Antimony	88.30	100.0	mg/Kg	88%		80-120
Arsenic	85.36	100.0	mg/Kg	85%		80-120
Barium	91.81	100.0	mg/Kg	92%		80-120
Beryllium	88.49	100.0	mg/Kg	88%		80-120
Cadmium	90.30	100.0	mg/Kg	90%		80-120
Chromium	87.37	100.0	mg/Kg	87%		80-120
Cobalt	94.32	100.0	mg/Kg	94%		80-120
Copper	87.49	100.0	mg/Kg	87%		80-120
Lead	93.81	100.0	mg/Kg	94%		80-120
Molybdenum	86.36	100.0	mg/Kg	86%		80-120
Nickel	92.45	100.0	mg/Kg	92%		80-120
Selenium	82.48	100.0	mg/Kg	82%		80-120
Silver	39.98	50.00	mg/Kg	80%		80-120
Thallium	90.21	100.0	mg/Kg	90%		80-120
Vanadium	88.63	100.0	mg/Kg	89%		80-120
Zinc	91.63	100.0	mg/Kg	92%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1076629	Batch:	317172
Matrix (Source ID):	Soil (487589-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1076629 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	33.86	ND	98.04	mg/Kg	35%	*	75-125	0.98
Arsenic	83.05	2.412	98.04	mg/Kg	82%		75-125	0.98
Barium	184.4	84.62	98.04	mg/Kg	102%		75-125	0.98
Beryllium	85.79	0.2691	98.04	mg/Kg	87%		75-125	0.98
Cadmium	84.53	0.07139	98.04	mg/Kg	86%		75-125	0.98
Chromium	105.3	19.35	98.04	mg/Kg	88%		75-125	0.98
Cobalt	95.44	6.571	98.04	mg/Kg	91%		75-125	0.98
Copper	108.4	12.35	98.04	mg/Kg	98%		75-125	0.98
Lead	91.13	5.030	98.04	mg/Kg	88%		75-125	0.98
Molybdenum	78.62	ND	98.04	mg/Kg	80%		75-125	0.98
Nickel	104.7	18.70	98.04	mg/Kg	88%		75-125	0.98
Selenium	76.83	0.5258	98.04	mg/Kg	78%		75-125	0.98
Silver	42.50	ND	49.02	mg/Kg	87%		75-125	0.98
Thallium	84.85	ND	98.04	mg/Kg	87%		75-125	0.98
Vanadium	123.1	25.92	98.04	mg/Kg	99%		75-125	0.98
Zinc	141.3	43.71	98.04	mg/Kg	100%		75-125	0.98

Type:	Matrix Spike Duplicate	Lab ID:	QC1076630	Batch:	317172
Matrix (Source ID):	Soil (487589-001)	Method:	EPA 6010B	Prep Method:	EPA 3050B

QC1076630 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Antimony	38.88	ND	98.04	mg/Kg	40%	*	75-125	14	41	0.98
Arsenic	85.91	2.412	98.04	mg/Kg	85%		75-125	3	35	0.98
Barium	160.7	84.62	98.04	mg/Kg	78%		75-125	14	20	0.98
Beryllium	88.90	0.2691	98.04	mg/Kg	90%		75-125	4	20	0.98
Cadmium	88.25	0.07139	98.04	mg/Kg	90%		75-125	4	20	0.98
Chromium	105.1	19.35	98.04	mg/Kg	88%		75-125	0	20	0.98
Cobalt	97.28	6.571	98.04	mg/Kg	93%		75-125	2	20	0.98
Copper	105.8	12.35	98.04	mg/Kg	95%		75-125	2	20	0.98
Lead	93.18	5.030	98.04	mg/Kg	90%		75-125	2	20	0.98
Molybdenum	81.99	ND	98.04	mg/Kg	84%		75-125	4	20	0.98
Nickel	105.6	18.70	98.04	mg/Kg	89%		75-125	1	20	0.98
Selenium	80.02	0.5258	98.04	mg/Kg	81%		75-125	4	20	0.98
Silver	43.45	ND	49.02	mg/Kg	89%		75-125	2	20	0.98
Thallium	88.24	ND	98.04	mg/Kg	90%		75-125	4	20	0.98
Vanadium	115.9	25.92	98.04	mg/Kg	92%		75-125	6	20	0.98
Zinc	131.8	43.71	98.04	mg/Kg	90%		75-125	7	20	0.98

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Batch QC

Type: Post Digest Spike	Lab ID: QC1076631	Batch: 317172
Matrix (Source ID): Soil (487589-001)	Method: EPA 6010B	Prep Method: EPA 3050B

QC1076631 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Antimony	86.23	ND	95.24	mg/Kg	91%		75-125	0.95
Arsenic	89.32	2.412	95.24	mg/Kg	91%		75-125	0.95
Barium	201.0	84.62	95.24	mg/Kg	122%		75-125	0.95
Beryllium	88.77	0.2691	95.24	mg/Kg	93%		75-125	0.95
Cadmium	87.17	0.07139	95.24	mg/Kg	91%		75-125	0.95
Chromium	112.0	19.35	95.24	mg/Kg	97%		75-125	0.95
Cobalt	99.63	6.571	95.24	mg/Kg	98%		75-125	0.95
Copper	112.7	12.35	95.24	mg/Kg	105%		75-125	0.95
Lead	95.41	5.030	95.24	mg/Kg	95%		75-125	0.95
Molybdenum	88.76	ND	95.24	mg/Kg	93%		75-125	0.95
Nickel	111.7	18.70	95.24	mg/Kg	98%		75-125	0.95
Selenium	82.37	0.5258	95.24	mg/Kg	86%		75-125	0.95
Silver	45.39	ND	47.62	mg/Kg	95%		75-125	0.95
Thallium	87.80	ND	95.24	mg/Kg	92%		75-125	0.95
Vanadium	124.3	25.92	95.24	mg/Kg	103%		75-125	0.95
Zinc	146.9	43.71	95.24	mg/Kg	108%		75-125	0.95

Type: Blank	Lab ID: QC1078243	Batch: 317663
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1078243 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	06/28/23	07/07/23
Thallium	ND		mg/Kg	1.0	06/28/23	07/07/23

Type: Lab Control Sample	Lab ID: QC1078244	Batch: 317663
Matrix: Soil	Method: EPA 6020	Prep Method: EPA 3050B

QC1078244 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	97.92	100.0	mg/Kg	98%		80-120
Thallium	96.10	100.0	mg/Kg	96%		80-120

Type: Matrix Spike	Lab ID: QC1078647	Batch: 317663
Matrix (Source ID): Soil (488098-001)	Method: EPA 6020	Prep Method: EPA 3050B

QC1078647 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	101.8	3.805	98.04	mg/Kg	100%		75-125	0.98
Thallium	97.72	ND	98.04	mg/Kg	100%		75-125	0.98

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Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1078648	Batch:	317663
Matrix (Source ID):	Soil (488098-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1078648 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	100.3	3.805	98.04	mg/Kg	98%		75-125	1	20	0.98
Thallium	96.96	ND	98.04	mg/Kg	99%		75-125	1	20	0.98

Type:	Post Digest Spike	Lab ID:	QC1078651	Batch:	317663
Matrix (Source ID):	Soil (488098-001)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1078651 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	96.57	3.805	95.24	mg/Kg	97%		75-125	0.95
Thallium	90.79	ND	95.24	mg/Kg	95%		75-125	0.95

Type:	Blank	Lab ID:	QC1079212	Batch:	317982
Matrix:	Soil	Method:	EPA 7199	Prep Method:	METHOD

QC1079212 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Hexavalent Chromium	ND		mg/Kg	0.40	07/12/23 11:03	07/12/23 15:18

Type:	Lab Control Sample	Lab ID:	QC1079213	Batch:	317982
Matrix:	Soil	Method:	EPA 7199	Prep Method:	METHOD

QC1079213 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Hexavalent Chromium	43.09	40.00	mg/Kg	108%		80-120

Type:	Sample Duplicate	Lab ID:	QC1079214	Batch:	317982
Matrix (Source ID):	Miscell. (487847-001)	Method:	EPA 7199	Prep Method:	METHOD

QC1079214 Analyte	Result	Source Sample Result	Units	Qual	RPD	RPD Lim	DF
Hexavalent Chromium	ND	ND	mg/Kg			30	1

Type:	Sample Spike	Lab ID:	QC1079215	Batch:	317982
Matrix (Source ID):	Miscell. (487847-001)	Method:	EPA 7199	Prep Method:	METHOD

QC1079215 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	1.396	0.02769	40.32	mg/Kg	3%	*	70-130	2

ENTHALPY ANALYTICAL

Batch QC

Type:	**Post Digest Spike**	**Lab ID:**	**QC1079216**	**Batch:**	**317982**
Matrix (Source ID):	**Miscell. (487847-001)**	**Method:**	**EPA 7199**	**Prep Method:**	**METHOD**

QC1079216 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Hexavalent Chromium	41.13	0.02769	41.15	mg/Kg	100%		75-125	2.1

Type:	**Blank**	**Lab ID:**	**QC1076789**	**Batch:**	**317216**
Matrix:	**Soil**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC1076789 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Mercury	ND		mg/Kg	0.14	06/29/23	06/29/23

Type:	**Lab Control Sample**	**Lab ID:**	**QC1076790**	**Batch:**	**317216**
Matrix:	**Soil**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC1076790 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Mercury	0.8251	0.8333	mg/Kg	99%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1076791**	**Batch:**	**317216**
Matrix (Source ID):	**Soil (487578-022)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC1076791 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Mercury	0.9237	0.01981	0.9615	mg/Kg	94%		75-125	1.2

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1076792**	**Batch:**	**317216**
Matrix (Source ID):	**Soil (487578-022)**	**Method:**	**EPA 7471A**	**Prep Method:**	**METHOD**

QC1076792 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Mercury	0.8470	0.01981	0.8929	mg/Kg	93%		75-125	1	20	1.1

Type:	**Blank**	**Lab ID:**	**QC1077234**	**Batch:**	**317357**
Matrix:	**Soil**	**Method:**	**EPA 8015M**	**Prep Method:**	**EPA 3580M**

QC1077234 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
GRO C8-C10	ND		mg/Kg	10	06/30/23	06/30/23
DRO C10-C28	ND		mg/Kg	10	06/30/23	06/30/23
ORO C28-C44	ND		mg/Kg	20	06/30/23	06/30/23
Surrogates				**Limits**		
n-Triacontane	112%		%REC	70-130	06/30/23	06/30/23

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	Lab ID: QC1077235	Batch: 317357
Matrix: Soil	Method: EPA 8015M	Prep Method: EPA 3580M

QC1077235 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Diesel C10-C28	250.0	249.1	mg/Kg	100%		76-122
Surrogates						
n-Triacontane	9.921	9.965	mg/Kg	100%		70-130

Type: Matrix Spike	Lab ID: QC1077236	Batch: 317357
Matrix (Source ID): Soil (487613-001)	Method: EPA 8015M	Prep Method: EPA 3580M

QC1077236 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Diesel C10-C28	314.7	13.38	249.6	mg/Kg	121%		62-126	1
Surrogates								
n-Triacontane	10.17		9.985	mg/Kg	102%		70-130	1

Type: Matrix Spike Duplicate	Lab ID: QC1077237	Batch: 317357
Matrix (Source ID): Soil (487613-001)	Method: EPA 8015M	Prep Method: EPA 3580M

QC1077237 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Diesel C10-C28	258.0	13.38	249.6	mg/Kg	98%		62-126	20	35	1
Surrogates										
n-Triacontane	9.555		9.985	mg/Kg	96%		70-130			1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1077119	Batch: 317303
Matrix: Soil		

QC1077119 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546						
alpha-BHC	ND		ug/Kg	4.9	06/30/23	06/30/23
beta-BHC	ND		ug/Kg	4.9	06/30/23	06/30/23
gamma-BHC	ND		ug/Kg	4.9	06/30/23	06/30/23
delta-BHC	ND		ug/Kg	4.9	06/30/23	06/30/23
Heptachlor	ND		ug/Kg	4.9	06/30/23	06/30/23
Aldrin	ND		ug/Kg	4.9	06/30/23	06/30/23
Heptachlor epoxide	ND		ug/Kg	4.9	06/30/23	06/30/23
Endosulfan I	ND		ug/Kg	4.9	06/30/23	06/30/23
Dieldrin	ND		ug/Kg	4.9	06/30/23	06/30/23
4,4'-DDE	ND		ug/Kg	4.9	06/30/23	06/30/23
Endrin	ND		ug/Kg	4.9	06/30/23	06/30/23
Endosulfan II	ND		ug/Kg	4.9	06/30/23	06/30/23
Endosulfan sulfate	ND		ug/Kg	4.9	06/30/23	06/30/23
4,4'-DDD	ND		ug/Kg	4.9	06/30/23	06/30/23
Endrin aldehyde	ND		ug/Kg	4.9	06/30/23	06/30/23
Endrin ketone	ND		ug/Kg	4.9	06/30/23	06/30/23
4,4'-DDT	ND		ug/Kg	4.9	06/30/23	06/30/23
Methoxychlor	ND		ug/Kg	9.9	06/30/23	06/30/23
Toxaphene	ND		ug/Kg	99	06/30/23	06/30/23
Chlordane (Technical)	ND		ug/Kg	49	06/30/23	06/30/23
Surrogates				**Limits**		
TCMX	73%		%REC	23-120	06/30/23	06/30/23
Decachlorobiphenyl	82%		%REC	24-120	06/30/23	06/30/23
Method: EPA 8082 Prep Method: EPA 3546						
Aroclor-1016	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1221	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1232	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1242	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1248	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1254	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1260	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1262	ND		ug/Kg	49	06/30/23	06/30/23
Aroclor-1268	ND		ug/Kg	49	06/30/23	06/30/23
Surrogates				**Limits**		
Decachlorobiphenyl (PCB)	87%		%REC	19-121	06/30/23	06/30/23

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1077120**	**Batch: 317303**
Matrix: Soil	**Method: EPA 8081A**	**Prep Method: EPA 3546**

QC1077120 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	44.05	49.90	ug/Kg	88%		22-129
beta-BHC	41.54	49.90	ug/Kg	83%		28-125
gamma-BHC	42.64	49.90	ug/Kg	85%		22-128
delta-BHC	43.96	49.90	ug/Kg	88%		24-131
Heptachlor	42.07	49.90	ug/Kg	84%		18-124
Aldrin	33.51	49.90	ug/Kg	67%		23-120
Heptachlor epoxide	41.35	49.90	ug/Kg	83%		26-120
Endosulfan I	43.43	49.90	ug/Kg	87%		25-126
Dieldrin	45.10	49.90	ug/Kg	90%		23-124
4,4'-DDE	45.35	49.90	ug/Kg	91%		28-121
Endrin	50.55	49.90	ug/Kg	101%		25-127
Endosulfan II	50.63	49.90	ug/Kg	101%		29-121
Endosulfan sulfate	49.44	49.90	ug/Kg	99%		30-121
4,4'-DDD	51.62	49.90	ug/Kg	103%		26-120
Endrin aldehyde	37.02	49.90	ug/Kg	74%	#	10-120
Endrin ketone	51.81	49.90	ug/Kg	104%		28-125
4,4'-DDT	54.32	49.90	ug/Kg	109%	#	22-125
Methoxychlor	57.35	49.90	ug/Kg	115%	#	28-130
Surrogates						
TCMX	39.13	49.90	ug/Kg	78%		23-120
Decachlorobiphenyl	44.43	49.90	ug/Kg	89%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1077121	Batch:	317303
Matrix (Source ID):	Soil (487614-001)	Method:	EPA 8081A	Prep Method:	EPA 3546

QC1077121 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	30.60	2.661	49.07	ug/Kg	57%		46-120	0.98
beta-BHC	30.00	2.720	49.07	ug/Kg	56%		41-120	0.98
gamma-BHC	34.46	ND	49.07	ug/Kg	70%		41-120	0.98
delta-BHC	38.05	3.762	49.07	ug/Kg	70%		38-123	0.98
Heptachlor	30.09	ND	49.07	ug/Kg	61%		39-120	0.98
Aldrin	32.00	ND	49.07	ug/Kg	65%		34-120	0.98
Heptachlor epoxide	28.17	ND	49.07	ug/Kg	57%		43-120	0.98
Endosulfan I	31.07	ND	49.07	ug/Kg	63%		45-120	0.98
Dieldrin	34.17	ND	49.07	ug/Kg	70%		45-120	0.98
4,4'-DDE	56.42	19.18	49.07	ug/Kg	76%		34-120	0.98
Endrin	37.23	ND	49.07	ug/Kg	76%		40-120	0.98
Endosulfan II	38.17	ND	49.07	ug/Kg	78%		41-120	0.98
Endosulfan sulfate	35.72	ND	49.07	ug/Kg	73%		42-120	0.98
4,4'-DDD	37.63	2.654	49.07	ug/Kg	71%		41-120	0.98
Endrin aldehyde	28.94	3.507	49.07	ug/Kg	52%	#	30-120	0.98
Endrin ketone	42.34	ND	49.07	ug/Kg	86%		45-120	0.98
4,4'-DDT	65.41	11.02	49.07	ug/Kg	111%	#	35-127	0.98
Methoxychlor	50.41	ND	49.07	ug/Kg	103%	#	42-136	0.98
Surrogates								
TCMX	28.35		49.07	ug/Kg	58%		23-120	0.98
Decachlorobiphenyl	38.19		49.07	ug/Kg	78%		24-120	0.98

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1077122**	**Batch:**	**317303**
Matrix (Source ID):	**Soil (487614-001)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1077122 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	28.29	2.661	49.95	ug/Kg	51%		46-120	10	30	1
beta-BHC	26.99	2.720	49.95	ug/Kg	49%		41-120	12	30	1
gamma-BHC	30.25	ND	49.95	ug/Kg	61%		41-120	15	30	1
delta-BHC	31.49	3.762	49.95	ug/Kg	56%		38-123	21	30	1
Heptachlor	26.69	ND	49.95	ug/Kg	53%		39-120	14	30	1
Aldrin	28.59	ND	49.95	ug/Kg	57%		34-120	13	30	1
Heptachlor epoxide	26.53	ND	49.95	ug/Kg	53%		43-120	8	30	1
Endosulfan I	27.92	ND	49.95	ug/Kg	56%		45-120	12	30	1
Dieldrin	29.06	ND	49.95	ug/Kg	58%		45-120	18	30	1
4,4'-DDE	48.51	19.18	49.95	ug/Kg	59%		34-120	16	30	1
Endrin	34.33	ND	49.95	ug/Kg	69%		40-120	10	30	1
Endosulfan II	33.38	ND	49.95	ug/Kg	67%		41-120	15	30	1
Endosulfan sulfate	27.77	ND	49.95	ug/Kg	56%		42-120	27	30	1
4,4'-DDD	32.56	2.654	49.95	ug/Kg	60%		41-120	16	30	1
Endrin aldehyde	23.98	3.507	49.95	ug/Kg	41%	#	30-120	20	30	1
Endrin ketone	34.41	ND	49.95	ug/Kg	69%		45-120	22	30	1
4,4'-DDT	54.49	11.02	49.95	ug/Kg	87%	#	35-127	20	30	1
Methoxychlor	43.09	ND	49.95	ug/Kg	86%	#	42-136	17	30	1
Surrogates										
TCMX	25.14		49.95	ug/Kg	50%		23-120			1
Decachlorobiphenyl	32.08		49.95	ug/Kg	64%		24-120			1

Type:	**Lab Control Sample**	**Lab ID:**	**QC1077123**	**Batch:**	**317303**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1077123 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	403.0	497.0	ug/Kg	81%		14-150
Aroclor-1260	467.7	497.0	ug/Kg	94%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	44.21	49.70	ug/Kg	89%		19-121

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1077124**	**Batch:**	**317303**
Matrix (Source ID):	**Soil (487614-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1077124 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	326.1	ND	495.5	ug/Kg	66%		42-127	0.99
Aroclor-1260	422.5	ND	495.5	ug/Kg	85%		38-130	0.99
Surrogates								
Decachlorobiphenyl (PCB)	41.27		49.55	ug/Kg	83%		19-121	0.99

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1077125**	**Batch:**	**317303**
Matrix (Source ID):	**Soil (487614-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1077125 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	348.9	ND	494.1	ug/Kg	71%		42-127	7	30	0.99
Aroclor-1260	426.9	ND	494.1	ug/Kg	86%		38-130	1	30	0.99
Surrogates										
Decachlorobiphenyl (PCB)	37.79		49.41	ug/Kg	76%		19-121			0.99

Type:	**Lab Control Sample**	**Lab ID:**	**QC1077363**	**Batch:**	**317395**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1077363 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
TPH Gasoline	537.8	500.0	ug/Kg	108%		70-130
Surrogates						
Dibromofluoromethane	49.82	50.00	ug/Kg	100%		70-130
1,2-Dichloroethane-d4	52.16	50.00	ug/Kg	104%		70-145
Toluene-d8	49.40	50.00	ug/Kg	99%		70-145
Bromofluorobenzene	48.39	50.00	ug/Kg	97%		70-145

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1077364**	**Batch:**	**317395**
Matrix:	**Soil**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5035**

QC1077364 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
TPH Gasoline	485.3	500.0	ug/Kg	97%		70-130	10	20
Surrogates								
Dibromofluoromethane	49.82	50.00	ug/Kg	100%		70-130		
1,2-Dichloroethane-d4	51.78	50.00	ug/Kg	104%		70-145		
Toluene-d8	49.78	50.00	ug/Kg	100%		70-145		
Bromofluorobenzene	49.76	50.00	ug/Kg	100%		70-145		

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1077365**	**Batch: 317395**
Matrix: Soil	**Method: EPA 8260B**	**Prep Method: EPA 5035**

QC1077365 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	45.40	50.00	ug/Kg	91%		70-131
MTBE	41.26	50.00	ug/Kg	83%		69-130
Benzene	41.77	50.00	ug/Kg	84%		70-130
Trichloroethene	42.59	50.00	ug/Kg	85%		70-130
Toluene	42.71	50.00	ug/Kg	85%		70-130
Chlorobenzene	42.53	50.00	ug/Kg	85%		70-130
Surrogates						
Dibromofluoromethane	51.72	50.00	ug/Kg	103%		70-130
1,2-Dichloroethane-d4	53.19	50.00	ug/Kg	106%		70-145
Toluene-d8	49.45	50.00	ug/Kg	99%		70-145
Bromofluorobenzene	51.03	50.00	ug/Kg	102%		70-145

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1077366	**Batch:** 317395
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5035

QC1077366 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/Kg	100	07/01/23	07/01/23
Isopropyl Ether (DIPE)	ND		ug/Kg	5.0	07/01/23	07/01/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	5.0	07/01/23	07/01/23
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	5.0	07/01/23	07/01/23
tert-Butyl Alcohol (TBA)	ND		ug/Kg	15	07/01/23	07/01/23
Freon 12	ND		ug/Kg	5.0	07/01/23	07/01/23
Chloromethane	ND		ug/Kg	5.0	07/01/23	07/01/23
3-Chloropropene	ND		ug/Kg	5.0	07/01/23	07/01/23
cis-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	07/01/23	07/01/23
trans-1,4-Dichloro-2-butene	ND		ug/Kg	5.0	07/01/23	07/01/23
Vinyl Chloride	ND		ug/Kg	5.0	07/01/23	07/01/23
Bromomethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Chloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Trichlorofluoromethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Acetone	ND		ug/Kg	100	07/01/23	07/01/23
Freon 113	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1-Dichloroethene	ND		ug/Kg	5.0	07/01/23	07/01/23
Methylene Chloride	ND		ug/Kg	5.0	07/01/23	07/01/23
MTBE	ND		ug/Kg	5.0	07/01/23	07/01/23
trans-1,2-Dichloroethene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1-Dichloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
2-Butanone	ND		ug/Kg	100	07/01/23	07/01/23
cis-1,2-Dichloroethene	ND		ug/Kg	5.0	07/01/23	07/01/23
2,2-Dichloropropane	ND		ug/Kg	5.0	07/01/23	07/01/23
Chloroform	ND		ug/Kg	5.0	07/01/23	07/01/23
Bromochloromethane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1,1-Trichloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1-Dichloropropene	ND		ug/Kg	5.0	07/01/23	07/01/23
Carbon Tetrachloride	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2-Dichloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Benzene	ND		ug/Kg	5.0	07/01/23	07/01/23
Trichloroethene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2-Dichloropropane	ND		ug/Kg	5.0	07/01/23	07/01/23
Bromodichloromethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Dibromomethane	ND		ug/Kg	5.0	07/01/23	07/01/23
4-Methyl-2-Pentanone	ND		ug/Kg	100	07/01/23	07/01/23
cis-1,3-Dichloropropene	ND		ug/Kg	5.0	07/01/23	07/01/23
Toluene	ND		ug/Kg	5.0	07/01/23	07/01/23
trans-1,3-Dichloropropene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1,2-Trichloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,3-Dichloropropane	ND		ug/Kg	5.0	07/01/23	07/01/23
Tetrachloroethene	ND		ug/Kg	5.0	07/01/23	07/01/23

ENTHALPY ANALYTICAL

Batch QC

QC1077366 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dibromochloromethane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2-Dibromoethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Chlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1,1,2-Tetrachloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
Ethylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
m,p-Xylenes	ND		ug/Kg	10	07/01/23	07/01/23
o-Xylene	ND		ug/Kg	5.0	07/01/23	07/01/23
Styrene	ND		ug/Kg	5.0	07/01/23	07/01/23
Bromoform	ND		ug/Kg	5.0	07/01/23	07/01/23
Isopropylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,1,2,2-Tetrachloroethane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2,3-Trichloropropane	ND		ug/Kg	5.0	07/01/23	07/01/23
Propylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
Bromobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,3,5-Trimethylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
2-Chlorotoluene	ND		ug/Kg	5.0	07/01/23	07/01/23
4-Chlorotoluene	ND		ug/Kg	5.0	07/01/23	07/01/23
tert-Butylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2,4-Trimethylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
sec-Butylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
para-Isopropyl Toluene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,3-Dichlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,4-Dichlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
n-Butylbenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2-Dichlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2,4-Trichlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
Hexachlorobutadiene	ND		ug/Kg	5.0	07/01/23	07/01/23
Naphthalene	ND		ug/Kg	5.0	07/01/23	07/01/23
1,2,3-Trichlorobenzene	ND		ug/Kg	5.0	07/01/23	07/01/23
Xylene (total)	ND		ug/Kg	5.0	07/01/23	07/01/23
Surrogates				**Limits**		
Dibromofluoromethane	99%		%REC	70-130	07/01/23	07/01/23
1,2-Dichloroethane-d4	101%		%REC	70-145	07/01/23	07/01/23
Toluene-d8	99%		%REC	70-145	07/01/23	07/01/23
Bromofluorobenzene	98%		%REC	70-145	07/01/23	07/01/23

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1077367	**Batch:** 317395
Matrix: Soil	**Method:** EPA 8260B	**Prep Method:** EPA 5035

QC1077367 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
TPH Gasoline	ND		ug/Kg	5,000	07/01/23	07/01/23
Isopropyl Ether (DIPE)	ND		ug/Kg	250	07/01/23	07/01/23
Ethyl tert-Butyl Ether (ETBE)	ND		ug/Kg	250	07/01/23	07/01/23
Methyl tert-Amyl Ether (TAME)	ND		ug/Kg	250	07/01/23	07/01/23
tert-Butyl Alcohol (TBA)	ND		ug/Kg	750	07/01/23	07/01/23
Freon 12	ND		ug/Kg	250	07/01/23	07/01/23
Chloromethane	ND		ug/Kg	250	07/01/23	07/01/23
3-Chloropropene	ND		ug/Kg	250	07/01/23	07/01/23
cis-1,4-Dichloro-2-butene	ND		ug/Kg	250	07/01/23	07/01/23
trans-1,4-Dichloro-2-butene	ND		ug/Kg	250	07/01/23	07/01/23
Vinyl Chloride	ND		ug/Kg	250	07/01/23	07/01/23
Bromomethane	ND		ug/Kg	250	07/01/23	07/01/23
Chloroethane	ND		ug/Kg	250	07/01/23	07/01/23
Trichlorofluoromethane	ND		ug/Kg	250	07/01/23	07/01/23
Acetone	ND		ug/Kg	5,000	07/01/23	07/01/23
Freon 113	ND		ug/Kg	250	07/01/23	07/01/23
1,1-Dichloroethene	ND		ug/Kg	250	07/01/23	07/01/23
Methylene Chloride	ND		ug/Kg	250	07/01/23	07/01/23
MTBE	ND		ug/Kg	250	07/01/23	07/01/23
trans-1,2-Dichloroethene	ND		ug/Kg	250	07/01/23	07/01/23
1,1-Dichloroethane	ND		ug/Kg	250	07/01/23	07/01/23
2-Butanone	ND		ug/Kg	5,000	07/01/23	07/01/23
cis-1,2-Dichloroethene	ND		ug/Kg	250	07/01/23	07/01/23
2,2-Dichloropropane	ND		ug/Kg	250	07/01/23	07/01/23
Chloroform	ND		ug/Kg	250	07/01/23	07/01/23
Bromochloromethane	ND		ug/Kg	250	07/01/23	07/01/23
1,1,1-Trichloroethane	ND		ug/Kg	250	07/01/23	07/01/23
1,1-Dichloropropene	ND		ug/Kg	250	07/01/23	07/01/23
Carbon Tetrachloride	ND		ug/Kg	250	07/01/23	07/01/23
1,2-Dichloroethane	ND		ug/Kg	250	07/01/23	07/01/23
Benzene	ND		ug/Kg	250	07/01/23	07/01/23
Trichloroethene	ND		ug/Kg	250	07/01/23	07/01/23
1,2-Dichloropropane	ND		ug/Kg	250	07/01/23	07/01/23
Bromodichloromethane	ND		ug/Kg	250	07/01/23	07/01/23
Dibromomethane	ND		ug/Kg	250	07/01/23	07/01/23
4-Methyl-2-Pentanone	ND		ug/Kg	5,000	07/01/23	07/01/23
cis-1,3-Dichloropropene	ND		ug/Kg	250	07/01/23	07/01/23
Toluene	ND		ug/Kg	250	07/01/23	07/01/23
trans-1,3-Dichloropropene	ND		ug/Kg	250	07/01/23	07/01/23
1,1,2-Trichloroethane	ND		ug/Kg	250	07/01/23	07/01/23
1,3-Dichloropropane	ND		ug/Kg	250	07/01/23	07/01/23
Tetrachloroethene	ND		ug/Kg	250	07/01/23	07/01/23

Batch QC

QC1077367 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dibromochloromethane	ND		ug/Kg	250	07/01/23	07/01/23
1,2-Dibromoethane	ND		ug/Kg	250	07/01/23	07/01/23
Chlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,1,1,2-Tetrachloroethane	ND		ug/Kg	250	07/01/23	07/01/23
Ethylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
m,p-Xylenes	ND		ug/Kg	500	07/01/23	07/01/23
o-Xylene	ND		ug/Kg	250	07/01/23	07/01/23
Styrene	ND		ug/Kg	250	07/01/23	07/01/23
Bromoform	ND		ug/Kg	250	07/01/23	07/01/23
Isopropylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,1,2,2-Tetrachloroethane	ND		ug/Kg	250	07/01/23	07/01/23
1,2,3-Trichloropropane	ND		ug/Kg	250	07/01/23	07/01/23
Propylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
Bromobenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,3,5-Trimethylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
2-Chlorotoluene	ND		ug/Kg	250	07/01/23	07/01/23
4-Chlorotoluene	ND		ug/Kg	250	07/01/23	07/01/23
tert-Butylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,2,4-Trimethylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
sec-Butylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
para-Isopropyl Toluene	ND		ug/Kg	250	07/01/23	07/01/23
1,3-Dichlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,4-Dichlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
n-Butylbenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,2-Dichlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
1,2-Dibromo-3-Chloropropane	ND		ug/Kg	250	07/01/23	07/01/23
1,2,4-Trichlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
Hexachlorobutadiene	ND		ug/Kg	250	07/01/23	07/01/23
Naphthalene	ND		ug/Kg	250	07/01/23	07/01/23
1,2,3-Trichlorobenzene	ND		ug/Kg	250	07/01/23	07/01/23
Xylene (total)	ND		ug/Kg	250	07/01/23	07/01/23
Surrogates				**Limits**		
Dibromofluoromethane	96%		%REC	70-130	07/01/23	07/01/23
1,2-Dichloroethane-d4	103%		%REC	70-145	07/01/23	07/01/23
Toluene-d8	98%		%REC	70-145	07/01/23	07/01/23
Bromofluorobenzene	97%		%REC	70-145	07/01/23	07/01/23

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike	Lab ID:	QC1077374	Batch:	317395
Matrix (Source ID):	Miscell. (487753-001)	Method:	EPA 8260B	Prep Method:	EPA 5030B

QC1077374 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
1,1-Dichloroethene	2,379	ND	2500	ug/Kg	95%		70-141	50
MTBE	2,542	ND	2500	ug/Kg	102%		59-130	50
Benzene	2,414	76.31	2500	ug/Kg	94%		70-130	50
Trichloroethene	2,280	ND	2500	ug/Kg	91%		69-130	50
Toluene	2,431	56.01	2500	ug/Kg	95%		70-130	50
Chlorobenzene	2,325	ND	2500	ug/Kg	93%		70-130	50
Surrogates								
Dibromofluoromethane	2,515		2500	ug/Kg	101%		70-145	50
1,2-Dichloroethane-d4	2,556		2500	ug/Kg	102%		70-145	50
Toluene-d8	2,501		2500	ug/Kg	100%		70-145	50
Bromofluorobenzene	2,644		2500	ug/Kg	106%		70-145	50

Type:	Matrix Spike Duplicate	Lab ID:	QC1077375	Batch:	317395
Matrix (Source ID):	Miscell. (487753-001)	Method:	EPA 8260B	Prep Method:	EPA 5030B

QC1077375 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
1,1-Dichloroethene	2,502	ND	2500	ug/Kg	100%		70-141	5	43	50
MTBE	2,628	ND	2500	ug/Kg	105%		59-130	3	30	50
Benzene	2,503	76.31	2500	ug/Kg	97%		70-130	4	30	50
Trichloroethene	2,418	ND	2500	ug/Kg	97%		69-130	6	30	50
Toluene	2,525	56.01	2500	ug/Kg	99%		70-130	4	30	50
Chlorobenzene	2,458	ND	2500	ug/Kg	98%		70-130	6	30	50
Surrogates										
Dibromofluoromethane	2,485		2500	ug/Kg	99%		70-145			50
1,2-Dichloroethane-d4	2,570		2500	ug/Kg	103%		70-145			50
Toluene-d8	2,489		2500	ug/Kg	100%		70-145			50
Bromofluorobenzene	2,456		2500	ug/Kg	98%		70-145			50

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1077035**	**Batch:**	**317254**
Matrix:	**Soil**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1077035 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Carbazole	ND		ug/Kg	250	06/29/23	06/29/23
1-Methylnaphthalene	ND		ug/Kg	250	06/29/23	06/29/23
Pyridine	ND		ug/Kg	250	06/29/23	06/29/23
N-Nitrosodimethylamine	ND		ug/Kg	250	06/29/23	06/29/23
Phenol	ND		ug/Kg	250	06/29/23	06/29/23
Aniline	ND		ug/Kg	250	06/29/23	06/29/23
bis(2-Chloroethyl)ether	ND		ug/Kg	1,200	06/29/23	06/29/23
2-Chlorophenol	ND		ug/Kg	250	06/29/23	06/29/23
1,3-Dichlorobenzene	ND		ug/Kg	250	06/29/23	06/29/23
1,4-Dichlorobenzene	ND		ug/Kg	250	06/29/23	06/29/23
Benzyl alcohol	ND		ug/Kg	250	06/29/23	06/29/23
1,2-Dichlorobenzene	ND		ug/Kg	250	06/29/23	06/29/23
2-Methylphenol	ND		ug/Kg	250	06/29/23	06/29/23
bis(2-Chloroisopropyl) ether	ND		ug/Kg	250	06/29/23	06/29/23
3-,4-Methylphenol	ND		ug/Kg	400	06/29/23	06/29/23
N-Nitroso-di-n-propylamine	ND		ug/Kg	250	06/29/23	06/29/23
Hexachloroethane	ND		ug/Kg	250	06/29/23	06/29/23
Nitrobenzene	ND		ug/Kg	1,200	06/29/23	06/29/23
Isophorone	ND		ug/Kg	250	06/29/23	06/29/23
2-Nitrophenol	ND		ug/Kg	250	06/29/23	06/29/23
2,4-Dimethylphenol	ND		ug/Kg	250	06/29/23	06/29/23
Benzoic acid	ND		ug/Kg	1,200	06/29/23	06/29/23
bis(2-Chloroethoxy)methane	ND		ug/Kg	250	06/29/23	06/29/23
2,4-Dichlorophenol	ND		ug/Kg	250	06/29/23	06/29/23
1,2,4-Trichlorobenzene	ND		ug/Kg	250	06/29/23	06/29/23
Naphthalene	ND		ug/Kg	250	06/29/23	06/29/23
4-Chloroaniline	ND		ug/Kg	250	06/29/23	06/29/23
Hexachlorobutadiene	ND		ug/Kg	250	06/29/23	06/29/23
4-Chloro-3-methylphenol	ND		ug/Kg	250	06/29/23	06/29/23
2-Methylnaphthalene	ND		ug/Kg	250	06/29/23	06/29/23
Hexachlorocyclopentadiene	ND		ug/Kg	1,200	06/29/23	06/29/23
2,4,6-Trichlorophenol	ND		ug/Kg	250	06/29/23	06/29/23
2,4,5-Trichlorophenol	ND		ug/Kg	250	06/29/23	06/29/23
2-Chloronaphthalene	ND		ug/Kg	250	06/29/23	06/29/23
2-Nitroaniline	ND		ug/Kg	250	06/29/23	06/29/23
Dimethylphthalate	ND		ug/Kg	250	06/29/23	06/29/23
Acenaphthylene	ND		ug/Kg	250	06/29/23	06/29/23
2,6-Dinitrotoluene	ND		ug/Kg	250	06/29/23	06/29/23
3-Nitroaniline	ND		ug/Kg	250	06/29/23	06/29/23
Acenaphthene	ND		ug/Kg	250	06/29/23	06/29/23
2,4-Dinitrophenol	ND		ug/Kg	1,200	06/29/23	06/29/23
4-Nitrophenol	ND		ug/Kg	250	06/29/23	06/29/23

ENTHALPY ANALYTICAL

Batch QC

QC1077035 Analyte	Result	Qual	Units	RL	Prepared	Analyzed
Dibenzofuran	ND		ug/Kg	250	06/29/23	06/29/23
2,4-Dinitrotoluene	ND		ug/Kg	250	06/29/23	06/29/23
Diethylphthalate	ND		ug/Kg	250	06/29/23	06/29/23
Fluorene	ND		ug/Kg	250	06/29/23	06/29/23
4-Chlorophenyl-phenylether	ND		ug/Kg	250	06/29/23	06/29/23
4-Nitroaniline	ND		ug/Kg	250	06/29/23	06/29/23
4,6-Dinitro-2-methylphenol	ND		ug/Kg	250	06/29/23	06/29/23
N-Nitrosodiphenylamine	ND		ug/Kg	250	06/29/23	06/29/23
1,2-diphenylhydrazine (as azobenzene)	ND		ug/Kg	250	06/29/23	06/29/23
4-Bromophenyl-phenylether	ND		ug/Kg	250	06/29/23	06/29/23
Hexachlorobenzene	ND		ug/Kg	250	06/29/23	06/29/23
Pentachlorophenol	ND		ug/Kg	1,200	06/29/23	06/29/23
Phenanthrene	ND		ug/Kg	250	06/29/23	06/29/23
Anthracene	ND		ug/Kg	250	06/29/23	06/29/23
Di-n-butylphthalate	ND		ug/Kg	250	06/29/23	06/29/23
Fluoranthene	ND		ug/Kg	250	06/29/23	06/29/23
Benzidine	ND		ug/Kg	1,200	06/29/23	06/29/23
Pyrene	ND		ug/Kg	250	06/29/23	06/29/23
Butylbenzylphthalate	ND		ug/Kg	250	06/29/23	06/29/23
3,3'-Dichlorobenzidine	ND		ug/Kg	1,200	06/29/23	06/29/23
Benzo(a)anthracene	ND		ug/Kg	250	06/29/23	06/29/23
Chrysene	ND		ug/Kg	250	06/29/23	06/29/23
bis(2-Ethylhexyl)phthalate	ND		ug/Kg	250	06/29/23	06/29/23
Di-n-octylphthalate	ND		ug/Kg	250	06/29/23	06/29/23
Benzo(b)fluoranthene	ND		ug/Kg	250	06/29/23	06/29/23
Benzo(k)fluoranthene	ND		ug/Kg	250	06/29/23	06/29/23
Benzo(a)pyrene	ND		ug/Kg	250	06/29/23	06/29/23
Indeno(1,2,3-cd)pyrene	ND		ug/Kg	250	06/29/23	06/29/23
Dibenz(a,h)anthracene	ND		ug/Kg	250	06/29/23	06/29/23
Benzo(g,h,i)perylene	ND		ug/Kg	250	06/29/23	06/29/23
Surrogates				**Limits**		
2-Fluorophenol	92%		%REC	29-120	06/29/23	06/29/23
Phenol-d6	94%		%REC	30-120	06/29/23	06/29/23
2,4,6-Tribromophenol	76%		%REC	32-120	06/29/23	06/29/23
Nitrobenzene-d5	88%		%REC	33-120	06/29/23	06/29/23
2-Fluorobiphenyl	87%		%REC	39-120	06/29/23	06/29/23
Terphenyl-d14	92%		%REC	44-125	06/29/23	06/29/23

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1077036**	**Batch: 317254**
Matrix: Soil	**Method: EPA 8270C**	**Prep Method: EPA 3546**

QC1077036 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Phenol	4,467	3750	ug/Kg	119%		42-120
2-Chlorophenol	4,005	3750	ug/Kg	107%		41-120
1,4-Dichlorobenzene	4,009	3750	ug/Kg	107%		36-120
3-,4-Methylphenol	4,265	3750	ug/Kg	114%		42-120
N-Nitroso-di-n-propylamine	4,024	3750	ug/Kg	107%		43-121
2,4-Dimethylphenol	3,873	3750	ug/Kg	103%		25-120
1,2,4-Trichlorobenzene	3,830	3750	ug/Kg	102%		38-120
4-Chloro-3-methylphenol	4,153	3750	ug/Kg	111%		40-125
2,4,5-Trichlorophenol	4,073	3750	ug/Kg	109%		40-124
Acenaphthene	4,016	3750	ug/Kg	107%		35-126
4-Nitrophenol	3,468	3750	ug/Kg	92%		24-128
2,4-Dinitrotoluene	4,320	3750	ug/Kg	115%		40-131
Pentachlorophenol	2,940	3750	ug/Kg	78%		35-120
Pyrene	4,151	3750	ug/Kg	111%		37-135
Chrysene	3,821	3750	ug/Kg	102%		38-132
Benzo(b)fluoranthene	4,277	3750	ug/Kg	114%		38-135
Surrogates						
2-Fluorophenol	2,047	2000	ug/Kg	102%		29-120
Phenol-d6	2,159	2000	ug/Kg	108%		30-120
2,4,6-Tribromophenol	1,992	2000	ug/Kg	100%		32-120
Nitrobenzene-d5	2,001	2000	ug/Kg	100%		33-120
2-Fluorobiphenyl	1,922	2000	ug/Kg	96%		39-120
Terphenyl-d14	2,024	2000	ug/Kg	101%		44-125

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1077037**	**Batch:**	**317254**
Matrix (Source ID):	**Soil (487562-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1077037 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Phenol	3,701	ND	3750	ug/Kg	99%		37-120	5
2-Chlorophenol	3,625	ND	3750	ug/Kg	97%		33-120	5
1,4-Dichlorobenzene	3,930	ND	3750	ug/Kg	105%		32-120	5
3-,4-Methylphenol	3,224	ND	3750	ug/Kg	86%		37-120	5
N-Nitroso-di-n-propylamine	3,915	ND	3750	ug/Kg	104%		32-120	5
2,4-Dimethylphenol	1,738	ND	3750	ug/Kg	46%		32-120	5
1,2,4-Trichlorobenzene	3,859	ND	3750	ug/Kg	103%		33-120	5
4-Chloro-3-methylphenol	2,826	ND	3750	ug/Kg	75%		41-121	5
2,4,5-Trichlorophenol	3,007	ND	3750	ug/Kg	80%		40-120	5
Acenaphthene	3,432	ND	3750	ug/Kg	92%		37-120	5
4-Nitrophenol	2,716	ND	3750	ug/Kg	72%		20-141	5
2,4-Dinitrotoluene	3,073	ND	3750	ug/Kg	82%		33-128	5
Pentachlorophenol	3,429	ND	3750	ug/Kg		DO	28-132	5
Pyrene	3,326	ND	3750	ug/Kg	89%		39-135	5
Chrysene	3,242	ND	3750	ug/Kg	86%		37-135	5
Benzo(b)fluoranthene	3,388	ND	3750	ug/Kg	90%		34-139	5
Surrogates								
2-Fluorophenol	1,669		2000	ug/Kg	83%		29-120	5
Phenol-d6	1,770		2000	ug/Kg	89%		30-120	5
2,4,6-Tribromophenol	1,303		2000	ug/Kg	65%		32-120	5
Nitrobenzene-d5	1,929		2000	ug/Kg	96%		33-120	5
2-Fluorobiphenyl	1,586		2000	ug/Kg	79%		39-120	5
Terphenyl-d14	1,571		2000	ug/Kg	79%		44-125	5

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1077038**	**Batch:**	**317254**
Matrix (Source ID):	**Soil (487562-001)**	**Method:**	**EPA 8270C**	**Prep Method:**	**EPA 3546**

QC1077038 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Phenol	3,833	ND	3713	ug/Kg	103%		37-120	4	49	5
2-Chlorophenol	3,711	ND	3713	ug/Kg	100%		33-120	3	52	5
1,4-Dichlorobenzene	3,940	ND	3713	ug/Kg	106%		32-120	1	50	5
3-,4-Methylphenol	3,380	ND	3713	ug/Kg	91%		37-120	6	54	5
N-Nitroso-di-n-propylamine	4,114	ND	3713	ug/Kg	111%		32-120	6	50	5
2,4-Dimethylphenol	1,910	ND	3713	ug/Kg	51%		32-120	10	50	5
1,2,4-Trichlorobenzene	3,945	ND	3713	ug/Kg	106%		33-120	3	50	5
4-Chloro-3-methylphenol	2,808	ND	3713	ug/Kg	76%		41-121	0	43	5
2,4,5-Trichlorophenol	3,035	ND	3713	ug/Kg	82%		40-120	2	47	5
Acenaphthene	3,322	ND	3713	ug/Kg	89%		37-120	2	48	5
4-Nitrophenol	2,760	ND	3713	ug/Kg	74%		20-141	3	30	5
2,4-Dinitrotoluene	3,087	ND	3713	ug/Kg	83%		33-128	1	50	5
Pentachlorophenol	3,425	ND	3713	ug/Kg		DO	28-132		30	5
Pyrene	3,252	ND	3713	ug/Kg	88%		39-135	1	41	5
Chrysene	3,121	ND	3713	ug/Kg	84%		37-135	3	46	5
Benzo(b)fluoranthene	3,421	ND	3713	ug/Kg	92%		34-139	2	47	5
Surrogates										
2-Fluorophenol	1,689		1980	ug/Kg	85%		29-120			5
Phenol-d6	1,814		1980	ug/Kg	92%		30-120			5
2,4,6-Tribromophenol	1,256		1980	ug/Kg	63%		32-120			5
Nitrobenzene-d5	2,002		1980	ug/Kg	101%		33-120			5
2-Fluorobiphenyl	1,557		1980	ug/Kg	79%		39-120			5
Terphenyl-d14	1,498		1980	ug/Kg	76%		44-125			5

\# CCV drift outside limits; average CCV drift within limits per method requirements
* Value is outside QC limits
DO Diluted Out
ND Not Detected

Laboratory Job Number 487562

Subcontracted Products

American Environmental Testing

AMERICAN ENVIRONMENTAL TESTING LABORATORY
2840 North Naomi Street Burbank, CA 91504 • ELAP# 1541 & 2402 • LACSD# 10181
TEL (888) 288-AETL • (818) 845-8200 • www.aetlab.com

July 06, 2023

AETL Job No: BEF0261
Received Date: 06/28/2023
Project Number: EO-487562

Enthalpy Analytical
931 W. Barkley Ave.
Orange, CA 92868

Telephone: (714) 771-9930

Attention: Patty Mata

Project Name: EO-487562

Site:

Enclosed please find the results of analyses for samples which were analyzed as specified on the attached chain of custody. If you have any questions concerning this report, please do not hesitate to call.

Checked By:

Corey Jones
Project Manager

Approved By:

Hailley Coleman
Project Manager

Table of Contents

Client Project Name: OPP & Herbicide Project Number: EO-487562
Work Order Number: BEF0261

AMERICAN ENVIRONMENTAL TESTING LABORATORY
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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Sample Condition on Receipt

Cooler ID: Default Cooler **Temperature: 5.8 °C**

Are the COCs Correct	Y		
Labels Legible	Y	Containers In Good Condition	Y
COC/Labels Agree	Y	Samples Preserved Properly	Y
Sufficient Sample Volume	Y	Sufficient Holding Time for all Tests	Y
Sample Labels intact	Y	Received on Ice	Y

ENTHALPY ANALYTICAL

Enthalpy Analytical - Orange
Orange, CA 92868
(714) 771-6900 / Fax: (510) 486-0532

Subcontract Laboratory:
American Environmental Testing
2834 North Naomi Street
Burbank, CA 91504-2023
ATTN: Hailley Coleman
PO #: Required, to be sent via email

Enthalpy Order: EO-487562
PM: Patty Mata
Email: patty.mata@enthalpy.com
CC: incomingreports@enthalpy.com
Phone: (714) 771-6900

Results Due: Standard TAT
Report Level: II
Report To: RL
EDDs: Standard Excel Transfer File (3 tab xls: SAMPDATE, QCDATA, LNOTE)

Notes:

BGF0261

BGF-0261

Sample ID	Collected	Lab ID	# Cont.	Matrix	Analysis Requested	Comment
TAILING A	27-JUN-2023 09:05	487562-001	1	Soil	Organophosphorus Pesticides	
			1	Soil	EPA 8151A Chlorinated Herbicides	
TAILING B	27-JUN-2023 09:41	487562-002	1	Soil	Organophosphorus Pesticides	
			1	Soil	EPA 8151A Chlorinated Herbicides	
TAILING C	27-JUN-2023 10:08	487562-003	1	Soil	Organophosphorus Pesticides	
			1	Soil	EPA 8151A Chlorinated Herbicides	
COMPOSITE	27-JUN-2023 10:06	487562-004	1	Soil	Organophosphorus Pesticides	
			1	Soil	EPA 8151A Chlorinated Herbicides	

01
02
03
04

Notes:	Relinquished By:	Received By:
	Amina Hunt	
	Date: 6-27-23	Date: 6/28/23
	Date:	Date:
	Date:	Date:

800-322-5555
www.gls-us.com

GLS.

CPS

Ship From
ENTHALPY ANALYTICAL
BERKELEY SERVICE CENTER
2323 5TH STREET
BERKELEY, CA 94710

Tracking #: 559651494

Ship To
AMERICAN ENVIRONMENTAL TESTING
HAILLEY COLEMAN
2834 NORTH NAOMI STREET
BURBANK, CA 91504

BURBANK

S02112F

88791871

COD: $0.00
Weight: 0 lb(s)
Reference:

Delivery Instructions:

Signature Type: STANDARD

BUR CA913-BF1

Print Date: 6/26/2023 9:53 AM

Package 1 of 2

LABEL INSTRUCTIONS:

Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
Step 1: Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer.
Step 2: Fold this page in half.
Step 3: Securely attach this label to your package and do not cover the barcode.

TERMS AND CONDITIONS:

By giving us your shipment to deliver, you agree to all of the General Logistics Systems US, Inc. (GLS) service terms & conditions including, but not limited to; limits of liability, declared value conditions, and claim procedures which are available on our website at www.gls-us.com.

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COOLER RECEIPT FORM

Client Name: ENTHALPY

Project Name: SVOC Testing Project No.: EO-487562

AETL Job Number: BEF0261

Date Received: 06/28/2023 Received by: Greta G

Carrier: ☐ AETL Courier ☐ Client ☑ GSL ☐ FedEx ☐ UPS
☐Others:

Samples were received in: ☑ Cooler (__1_____) ☐ Other (Specify):

Sample Container Temperature: __5.8__ °C IR Gun S/N: 51941911MV

Type of sample containers: VOA, Glass bottles, ✔Wide mouth jars, HDPE bottles, Metal sleeves, Acetate sleeves, 5035 Kit: AETL or Client, Tedlar Bags, Summa Canister: 6L, 3L, 1L, Others (Specify): _____

How are samples preserved: ☐ None, ☑ Ice, ☐ Blue Ice, ☐ Dry Ice
☑ None, ☐ HNO_3, ☐ NaOH, ☐ ZnOAc, ☐ HCl, ☐ $Na_2S_2O_3$, ☐ MeOH, ☐ $NaHSO_4$
☐ Other (Specify):

	Yes	No	N/A	Note or Comment
1. Are the COCs Correct?	✔			
2. Are Sample labels legible & indelible ink?	✔			
3. Do samples match the COC?	✔			
4. Are the required analyses clear?	✔			
5. Is there enough samples for required analysis?	✔			
6. Does cooler or samples have custody seal(s)?			✔	
7. Are sample containers in good condition?	✔			
8. Are samples preserved?	✔			
9. Are samples preserved properly for the intended analysis?	✔			
10. Are the VOAs free of headspace? See footnote.			✔	
11. Are the jars free of headspace?			✔	

* = see note below. N/A = Not Applicable

PLEASE NOTE ALL SAMPLES WILL BE DISPOSED OF 30 DAYS AFTER RECEIVING DATE. IF AETL IS INFORMED OTHERWISE, THERE WILL BE A STORAGE CHARGE PER SAMPLE PER MONTH FOR ANY SAMPLE HELD BEYOND 30 DAYS.

◯ Example maximum headspace bubble size; acceptance criteria not to exceed 5-6 mm in diameter.

For headspace bubbles exceeding 6 mm in diameter, sample receiving will tag the VOA and notify the Project Manager. The Project Manager will contact client for Analyze or Resample instructions.

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Case Narrative

The following "Sample Received" Section summarizes the samples received and associated analyses requested as specified on the enclosed chain of custody.

Results as reported by the laboratory apply only to 1) the items tested, 2) as the samples are received, and 3) the accuracy of information provided. Information supplied by the customer that may affect validity of results and may be contained in this report include Project Name/Number, Site Location, Sample Locations, Sampling Dates/Times, Sample ID, Sample Preservation, Sample Matrix, Sample Properties, Field Blanks, Field Duplicates, Field Spikes, and Site Historical Data.

Accreditation applies only to the test methods listed on each scope of accreditation held by the laboratory; certifications held by the laboratory may not apply to results supplied in this report.

Unless otherwise noted, all results of soil and solid samples are based on wet weight.

Qualifiers are noted in the report.

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Samples Received

AETL received the following samples on 06/28/2023 with the following specifications

Client ID		Sample Date
TAILING A/487562-001		06/27/2023 9:05
Lab ID	**Matrix**	**Quantity of Containers**
BEF0261-01	Soil	2

Analysis	Units	TAT
EPA 8141A	mg/kg	5
EPA 8151A	mg/kg	5

Client ID		Sample Date
TAILING B/487562-002		06/27/2023 9:41
Lab ID	**Matrix**	**Quantity of Containers**
BEF0261-02	Soil	2

Analysis	Units	TAT
EPA 8141A	mg/kg	5
EPA 8151A	mg/kg	5

Client ID		Sample Date
TAILING C/487562-003		06/27/2023 10:08
Lab ID	**Matrix**	**Quantity of Containers**
BEF0261-03	Soil	2

Analysis	Units	TAT
EPA 8141A	mg/kg	5
EPA 8151A	mg/kg	5

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Samples Received

(Continued)

AETL received the following samples on 06/28/2023 with the following specifications

Client ID		Sample Date
COMPOSITE/487562-004		06/27/2023 10:06
Lab ID	**Matrix**	**Quantity of Containers**
BEF0261-04	Soil	2

Analysis	Units	TAT
EPA 8141A	mg/kg	5
EPA 8151A	mg/kg	5

Total Number of Samples received: 4

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Positive Hits Summary

Lab ID **Client ID** **Sampled**

Method	Analyte	Result	Qualifier	Unit	Analyzed

No positive results reported

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING A/487562-001

Lab ID: BEF0261-01 (Soil) **Sampled: 06/27/23 9:05**

Organophosphorus Pesticides

Method: EPA 8141A

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Azinphos-methyl	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Bolstar (Sulprofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Chloropyrifos (Dursban)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Coumaphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Demeton-O & S	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Diazinon	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Dichlorvos (DDVP, Diclorovos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Disulfoton	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Ethoprop	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Fensulfothion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Fenthion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Malathion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Merphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Methyl parathion (Parathion methyl)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Mevinphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Naled	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Phorate (Phosphorodithioic acid)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Ronnel	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Tetrachlorvinphos (Stirophos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Tokuthion (Prothiofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
Trichloronate	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 18:37	B3G0019	ATS	3541
	Recovery			Acceptance Criteria						
Surrogate: Tributylphosphate	*111%*			*50-150*		07/03/23 14:29	*07/05/23 18:37*	B3G0019	*ATS*	3541

Chlorinated Herbicides

Method: EPA 8151A

Acifluorfen	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Bentazon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Chloramben	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
2,4-D	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
2,4-DB	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
DCPA diacid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING A/487562-001

Lab ID: BEF0261-01 (Soil) **Sampled: 06/27/23 9:05**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Chlorinated Herbicides (Continued)										
Dalapon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Dicamba	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
3,5-Dichlorobenzoic acid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Dichloroprop	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Dinoseb	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
MCPA	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
MCPP	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
4-Nitrophenol	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Pentachlorophenol (PCP)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
Picloram	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
2,4,5-TP	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 17:25	B3G0007	KF	3550B
	Recovery			Acceptance Criteria						
Surrogate: DCAA	*58.4%*			*30-140*		07/03/23 08:42	*07/03/23 17:25*	B3G0007	*KF*	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING B/487562-002

Lab ID: BEF0261-02 (Soil) **Sampled: 06/27/23 9:41**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Organophosphorus Pesticides										
Method: EPA 8141A										
Azinphos-methyl	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Bolstar (Sulprofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Chloropyrifos (Dursban)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Coumaphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Demeton-O & S	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Diazinon	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Dichlorvos (DDVP, Diclorovos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Disulfoton	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Ethoprop	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Fensulfothion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Fenthion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Malathion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Merphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Methyl parathion (Parathion methyl)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Mevinphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Naled	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Phorate (Phosphorodithioic acid)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Ronnel	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Tetrachlorvinphos (Stirophos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Tokuthion (Prothiofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
Trichloronate	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:11	B3G0019	ATS	3541
	Recovery			Acceptance Criteria						
Surrogate: Tributylphosphate	*83.1%*			*50-150*		07/03/23 14:29	*07/05/23 19:11*	B3G0019	*ATS*	3541
Chlorinated Herbicides										
Method: EPA 8151A										
Acifluorfen	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Bentazon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Chloramben	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
2,4-D	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
2,4-DB	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
DCPA diacid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING B/487562-002

Lab ID: BEF0261-02 (Soil) **Sampled: 06/27/23 9:41**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Chlorinated Herbicides (Continued)										
Dalapon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Dicamba	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
3,5-Dichlorobenzoic acid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Dichloroprop	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Dinoseb	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
MCPA	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
MCPP	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
4-Nitrophenol	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Pentachlorophenol (PCP)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
Picloram	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
2,4,5-TP	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:23	B3G0007	KF	3550B
	Recovery			Acceptance Criteria						
Surrogate: DCAA	*47.3%*			*30-140*		07/03/23 08:42	*07/03/23 18:23*	B3G0007	*KF*	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING C/487562-003

Lab ID: BEF0261-03 (Soil) **Sampled: 06/27/23 10:08**

Organophosphorus Pesticides

Method: EPA 8141A

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Azinphos-methyl	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Bolstar (Sulprofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Chloropyrifos (Dursban)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Coumaphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Demeton-O & S	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Diazinon	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Dichlorvos (DDVP, Diclorovos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Disulfoton	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Ethoprop	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Fensulfothion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Fenthion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Malathion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Merphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Methyl parathion (Parathion methyl)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Mevinphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Naled	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Phorate (Phosphorodithioic acid)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Ronnel	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Tetrachlorvinphos (Stirophos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Tokuthion (Prothiofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
Trichloronate	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 19:44	B3G0019	ATS	3541
	Recovery			Acceptance Criteria						
Surrogate: Tributylphosphate	*119%*			*50-150*		07/03/23 14:29	*07/05/23 19:44*	B3G0019	*ATS*	3541

Chlorinated Herbicides

Method: EPA 8151A

Acifluorfen	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Bentazon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Chloramben	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
2,4-D	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
2,4-DB	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
DCPA diacid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: TAILING C/487562-003

Lab ID: BEF0261-03 (Soil) **Sampled: 06/27/23 10:08**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Chlorinated Herbicides (Continued)										
Dalapon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Dicamba	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
3,5-Dichlorobenzoic acid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Dichloroprop	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Dinoseb	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
MCPA	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
MCPP	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
4-Nitrophenol	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Pentachlorophenol (PCP)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
Picloram	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
2,4,5-TP	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 18:53	B3G0007	KF	3550B
	Recovery			Acceptance Criteria						
Surrogate: DCAA	*73.6%*			*30-140*		07/03/23 08:42	*07/03/23 18:53*	B3G0007	*KF*	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: COMPOSITE/487562-004
Lab ID: BEF0261-04 (Soil) **Sampled:** 06/27/23 10:06

Organophosphorus Pesticides

Method: EPA 8141A

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Azinphos-methyl	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Bolstar (Sulprofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Chloropyrifos (Dursban)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Coumaphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Demeton-O & S	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Diazinon	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Dichlorvos (DDVP, Diclorovos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Disulfoton	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Ethoprop	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Fensulfothion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Fenthion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Malathion	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Merphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Methyl parathion (Parathion methyl)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Mevinphos	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Naled	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Phorate (Phosphorodithioic acid)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Ronnel	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Tetrachlorvinphos (Stirophos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Tokuthion (Prothiofos)	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
Trichloronate	ND		1	0.0200	mg/kg	07/03/23 14:29	07/05/23 20:18	B3G0019	ATS	3541
	Recovery			Acceptance Criteria						
Surrogate: Tributylphosphate	*42.0%*	*S6*		*50-150*		07/03/23 14:29	*07/05/23 20:18*	B3G0019	*ATS*	3541

Chlorinated Herbicides

Method: EPA 8151A

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Acifluorfen	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Bentazon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Chloramben	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
2,4-D	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
2,4-DB	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
DCPA diacid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Analytical Results

Client ID: **COMPOSITE/487562-004**
Lab ID: **BEF0261-04 (Soil)** **Sampled:** **06/27/23 10:06**

Analyte	Result	Qualifier	Dilution	RL	Units	Prepared Date/Time	Analyzed Date/Time	Batch	Analyst Initials	Prep. Method
Chlorinated Herbicides (Continued)										
Dalapon	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Dicamba	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
3,5-Dichlorobenzoic acid	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Dichloroprop	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Dinoseb	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
MCPA	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
MCPP	ND		1	0.250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
4-Nitrophenol	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Pentachlorophenol (PCP)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
Picloram	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
2,4,5-TP	ND		1	0.00250	mg/kg	07/03/23 08:42	07/03/23 19:22	B3G0007	KF	3550B
	Recovery			Acceptance Criteria						
Surrogate: DCAA	*53.8%*			*30-140*		07/03/23 08:42	*07/03/23 19:22*	B3G0007	*KF*	3550B

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Quality Control Results

Organophosphorus Pesticides (EPA 8141A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0019 - 3541				**Prepared: 07/03/2023 14:29**						
Method Blank (B3G0019-BLK1)				**Analyzed: 07/03/2023 17:00**						
Azinphos-methyl	ND	0.0200	mg/kg							
Bolstar (Sulprofos)	ND	0.0200	mg/kg							
Chloropyrifos (Dursban)	ND	0.0200	mg/kg							
Coumaphos	ND	0.0200	mg/kg							
Demeton-O & S	ND	0.0200	mg/kg							
Diazinon	ND	0.0200	mg/kg							
Dichlorvos (DDVP, Diclorovos)	ND	0.0200	mg/kg							
Disulfoton	ND	0.0200	mg/kg							
Ethoprop	ND	0.0200	mg/kg							
Fensulfothion	ND	0.0200	mg/kg							
Fenthion	ND	0.0200	mg/kg							
Malathion	ND	0.0200	mg/kg							
Merphos	ND	0.0200	mg/kg							
Methyl parathion (Parathion methyl)	ND	0.0200	mg/kg							
Mevinphos	ND	0.0200	mg/kg							
Naled	ND	0.0200	mg/kg							
Phorate (Phosphorodithioic acid)	ND	0.0200	mg/kg							
Ronnel	ND	0.0200	mg/kg							
Tetrachlorvinphos (Stirophos)	ND	0.0200	mg/kg							
Tokuthion (Prothiofos)	ND	0.0200	mg/kg							
Trichloronate	ND	0.0200	mg/kg							
Surrogate: Tributylphosphate	*0.164*		*mg/kg*	*0.167*		*98.4*	*50-150*			

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Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Quality Control Results

Organophosphorus Pesticides (EPA 8141A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0019 - 3541 (Continued)				**Prepared: 07/03/2023 14:29**						
LCS (B3G0019-BS1)				**Analyzed: 07/03/2023 15:54**						
Azinphos-methyl	0.0589	0.0200	mg/kg	0.133		44.2	30-150			
Bolstar (Sulprofos)	0.101	0.0200	mg/kg	0.133		75.9	30-150			
Chloropyrifos (Dursban)	0.107	0.0200	mg/kg	0.133		80.3	30-150			
Coumaphos	0.0719	0.0200	mg/kg	0.133		53.9	30-150			
Demeton-O & S	0.0595	0.0200	mg/kg	0.133		44.6	20-150			
Diazinon	0.105	0.0200	mg/kg	0.133		78.9	30-150			
Dichlorvos (DDVP, Diclorovos)	0.0847	0.0200	mg/kg	0.133		63.5	30-150			
Disulfoton	0.110	0.0200	mg/kg	0.133		82.4	30-150			
Ethoprop	0.101	0.0200	mg/kg	0.133		76.1	30-150			
Fensulfothion	0.0532	0.0200	mg/kg	0.133		39.9	30-150			
Fenthion	0.106	0.0200	mg/kg	0.133		79.3	30-150			
Malathion	0.0927	0.0200	mg/kg	0.133		69.5	30-150			
Merphos	0.0619	0.0200	mg/kg	0.133		46.4	30-150			
Methyl parathion (Parathion methyl)	0.116	0.0200	mg/kg	0.133		87.4	30-150			
Mevinphos	0.0718	0.0200	mg/kg	0.133		53.8	30-150			
Naled	0.0549	0.0200	mg/kg	0.133		41.2	30-150			
Phorate (Phosphorodithioic acid)	0.103	0.0200	mg/kg	0.133		77.5	30-150			
Ronnel	0.0694	0.0200	mg/kg	0.133		52.0	30-150			
Tetrachlorvinphos (Stirophos)	0.0794	0.0200	mg/kg	0.133		59.6	30-150			
Tokuthion (Prothiofos)	0.109	0.0200	mg/kg	0.133		81.9	30-150			
Trichloronate	0.114	0.0200	mg/kg	0.133		85.3	30-150			
Surrogate: Tributylphosphate	*0.190*		*mg/kg*	*0.167*		*114*	*50-150*			
LCSD (B3G0019-BSD1)				**Analyzed: 07/03/2023 16:27**						
Azinphos-methyl	0.0755	0.0200	mg/kg	0.133		56.6	30-150	24.8	40	
Bolstar (Sulprofos)	0.119	0.0200	mg/kg	0.133		89.2	30-150	16.1	40	
Chloropyrifos (Dursban)	0.133	0.0200	mg/kg	0.133		99.5	30-150	21.3	40	
Coumaphos	0.0849	0.0200	mg/kg	0.133		63.7	30-150	16.6	40	
Demeton-O & S	0.0571	0.0200	mg/kg	0.133		42.8	20-150	4.03	40	
Diazinon	0.135	0.0200	mg/kg	0.133		101	30-150	24.9	40	
Dichlorvos (DDVP, Diclorovos)	0.103	0.0200	mg/kg	0.133		76.9	30-150	19.1	40	
Disulfoton	0.146	0.0200	mg/kg	0.133		109	30-150	28.1	40	
Ethoprop	0.119	0.0200	mg/kg	0.133		89.1	30-150	15.8	40	
Fensulfothion	0.0724	0.0200	mg/kg	0.133		54.3	30-150	30.5	40	
Fenthion	0.130	0.0200	mg/kg	0.133		97.6	30-150	20.6	40	
Malathion	0.114	0.0200	mg/kg	0.133		85.5	30-150	20.7	40	
Merphos	0.0833	0.0200	mg/kg	0.133		62.4	30-150	29.5	40	
Methyl parathion (Parathion methyl)	0.143	0.0200	mg/kg	0.133		107	30-150	20.5	40	
Mevinphos	0.0888	0.0200	mg/kg	0.133		66.6	30-150	21.2	40	
Naled	0.0633	0.0200	mg/kg	0.133		47.5	30-150	14.3	40	
Phorate (Phosphorodithioic acid)	0.129	0.0200	mg/kg	0.133		96.9	30-150	22.2	40	

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Quality Control Results

Organophosphorus Pesticides (EPA 8141A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0019 - 3541 (Continued)				**Prepared: 07/03/2023 14:29**						
LCSD (B3G0019-BSD1)				**Analyzed: 07/03/2023 16:27**						
Ronnel	0.0874	0.0200	mg/kg	0.133		65.6	30-150	23.1	40	
Tetrachlorvinphos (Stirophos)	0.106	0.0200	mg/kg	0.133		79.3	30-150	28.3	40	
Tokuthion (Prothiofos)	0.141	0.0200	mg/kg	0.133		105	30-150	25.1	40	
Trichloronate	0.142	0.0200	mg/kg	0.133		106	30-150	21.8	40	
Surrogate: Tributylphosphate	*0.187*		*mg/kg*	*0.167*		*112*	*50-150*			

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	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Quality Control Results

Chlorinated Herbicides (EPA 8151A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0007 - 3550B				**Prepared: 07/03/2023 08:42**						
Method Blank (B3G0007-BLK1)				**Analyzed: 07/03/2023 10:53**						
Acifluorfen	ND	0.00250	mg/kg							
Bentazon	ND	0.00250	mg/kg							
Chloramben	ND	0.00250	mg/kg							
2,4-D	ND	0.00250	mg/kg							
2,4-DB	ND	0.00250	mg/kg							
DCPA diacid	ND	0.00250	mg/kg							
Dalapon	ND	0.00250	mg/kg							
Dicamba	ND	0.00250	mg/kg							
3,5-Dichlorobenzoic acid	ND	0.00250	mg/kg							
Dichloroprop	ND	0.00250	mg/kg							
Dinoseb	ND	0.00250	mg/kg							
MCPA	ND	0.250	mg/kg							
MCPP	ND	0.250	mg/kg							
4-Nitrophenol	ND	0.00250	mg/kg							
Pentachlorophenol (PCP)	ND	0.00250	mg/kg							
Picloram	ND	0.00250	mg/kg							
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	ND	0.00250	mg/kg							
2,4,5-TP	ND	0.00250	mg/kg							
Surrogate: DCAA	*0.0124*		*mg/kg*	*0.0250*		*49.5*	*30-140*			

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Enthalpy Analytical	AETL Job Number:	BEF0261	
931 W. Barkley Ave.	Project Number:	EO-487562	
Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Quality Control Results

Chlorinated Herbicides (EPA 8151A)

Analyte	Result	RL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
Batch: B3G0007 - 3550B (Continued)				**Prepared: 07/03/2023 08:42**						
LCS (B3G0007-BS1)				**Analyzed: 07/03/2023 09:54**						
Acifluorfen	0.00399	0.00250	mg/kg	0.0125		32.0	32-160			
Bentazon	0.0141	0.00250	mg/kg	0.0125		113	30-160			
Chloramben	0.00346	0.00250	mg/kg	0.0125		27.7	30-140			BS
2,4-D	0.0110	0.00250	mg/kg	0.0125		88.1	30-151			
2,4-DB	0.00833	0.00250	mg/kg	0.0125		66.6	30-160			
DCPA diacid	0.00903	0.00250	mg/kg	0.0125		72.2	30-124			
Dalapon	0.0117	0.00250	mg/kg	0.0125		93.3	30-160			
Dicamba	0.00902	0.00250	mg/kg	0.0125		72.2	30-144			
3,5-Dichlorobenzoic acid	0.0121	0.00250	mg/kg	0.0125		96.9	30-160			
Dichloroprop	0.00873	0.00250	mg/kg	0.0125		69.8	30-160			
Dinoseb	0.00448	0.00250	mg/kg	0.0125		35.8	30-160			
MCPA	0.836	0.250	mg/kg	1.25		66.9	30-160			
MCPP	1.17	0.250	mg/kg	1.25		93.4	30-160			
Pentachlorophenol (PCP)	0.0122	0.00250	mg/kg	0.0125		97.3	30-160			
Picloram	0.00738	0.00250	mg/kg	0.0125		59.0	20-135			
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.0138	0.00250	mg/kg	0.0125		110	30-160			
2,4,5-TP	0.0107	0.00250	mg/kg	0.0125		85.4	30-157			
Surrogate: DCAA	*0.0146*		*mg/kg*	*0.0250*		*58.3*	*30-140*			
LCSD (B3G0007-BSD1)				**Analyzed: 07/03/2023 10:24**						
Acifluorfen	0.00415	0.00250	mg/kg	0.0125		33.2	32-160	3.92	40	
Bentazon	0.0160	0.00250	mg/kg	0.0125		128	30-160	12.7	40	
Chloramben	0.00455	0.00250	mg/kg	0.0125		36.4	30-140	27.1	40	
2,4-D	0.0116	0.00250	mg/kg	0.0125		93.2	30-151	5.55	40	
2,4-DB	0.00912	0.00250	mg/kg	0.0125		73.0	30-160	9.07	40	
DCPA diacid	0.00953	0.00250	mg/kg	0.0125		76.3	30-124	5.43	40	
Dalapon	0.0105	0.00250	mg/kg	0.0125		84.2	30-160	10.3	40	
Dicamba	0.00966	0.00250	mg/kg	0.0125		77.2	30-144	6.75	40	
3,5-Dichlorobenzoic acid	0.0108	0.00250	mg/kg	0.0125		86.2	30-160	11.8	40	
Dichloroprop	0.00810	0.00250	mg/kg	0.0125		64.8	30-160	7.46	40	
Dinoseb	0.00474	0.00250	mg/kg	0.0125		37.9	30-160	5.67	40	
MCPA	0.527	0.250	mg/kg	1.25		42.2	30-160	45.3	40	R
MCPP	1.20	0.250	mg/kg	1.25		96.3	30-160	3.04	40	
Pentachlorophenol (PCP)	0.0127	0.00250	mg/kg	0.0125		102	30-160	4.20	40	
Picloram	0.00773	0.00250	mg/kg	0.0125		61.8	20-135	4.65	40	
2,4,5-T (2,4,5-Trichlorophenoxyacetic acid)	0.0142	0.00250	mg/kg	0.0125		114	30-160	3.37	40	
2,4,5-TP	0.0113	0.00250	mg/kg	0.0125		90.7	30-157	5.97	40	
Surrogate: DCAA	*0.0139*		*mg/kg*	*0.0250*		*55.6*	*30-140*			

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Orange, CA 92868	Attention:	Patty Mata	
	Project Name:	EO-487562	Reported: 07/06/2023 13:38

Qualifiers and Definitions

ITEM	Qualifiers
BS	The recovery of this analyte in LCS and/or LCSD was outside control limit. Sample was accepted based on the remaining LCSand/or LCSD.
R	The RPD was outside of QC acceptance limits due to possible matrix interference.
S6	Surrogate recovery is outside control limits due to matrix interference.

ITEM	Definitions
% wt	Percent Weight
%REC	Percent Recovery
°F	Degrees Fahrenheit
AETL	American Environmental Testing Laboratory, LLC
C	Carbon
CARB	California Air Resources Board
COC	Chain of Custody
Cresols	3-methylphenol/4-methylphenol coelute and cannot be chromatographically separated. Due to this coeluting isomer pair phenomenon, the laboratory uses a single cresol (4-methylphenol) as calibration standard for 3-methylphenol/4-methylphenol.
CRM	Certified Reference Material
DI	Deionized Water
DPD	Department of Planning and Development
DRO	Diesel Range Organics
Dup	Duplicate
ELAP	Environmental Laboratory Accreditation Program
EPA	Environmental Protection Agency
GC/FID	Gas Chromatography Flame Ionization Detection
GRO	Gasoline Range Organics
HC	Hydrocarbon
HEM	Hexane Extractable Material
HMU	Hazardous Material Unit
ICP/MS	Inductively Coupled Plasma Mass Spectrometry
LACSD	Los Angeles County Sanitation Districts
LCS	Laboratory Control Sample - A sample matrix, free from the analytes of interest, spiked with verified known amounts of analytes.
LCSD	Laboratory Control Sample Duplicate - A replicate of Laboratory Control Sample.
LOQ	Limit of Quantitation
MDL	Method Detection Limit - The minimum measured concentration of a substance that can be reported with 99% confidence. MDL is statistically derived number which is specific for each instrument, each method and each compound.
mg/kg	Miligrams per Kilogram
mg/L	Miligrams per Liter
ml/L/hr	Milliliter per Liter per Hour

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MRO	Motor oil Range Organics
MS	Matrix Spike - A sample prepared, taken through all sample preparation and analytical steps of the procedure and analyzed as an independent test results.
MSD	Matrix Spike Duplicate - A replicate of Matrix Spike Sample.
N	No
ND	Analyte is not detected below Method Detection Limit.
ng/m3	Nanograms per cubic meter
NIOSH	National Institute for Occupational Safety and Health
nL/L	Nanoliters per Liter
NTU	Nephelometric Turbidity Units
Ohm-cm	Ohms per centimeter
ORO	Oil Range Organics
OSHA	Occupational Safety and Health Administration
PCB	Polychlorinated Biphenyl
ppb v	Parts per billion by volume
ppmC	Parts per million Carbon
PSU	Practical Salinity Unit
RL	Reporting Limit - The lowest concentration at which an analyte can be detected in a sample and its concentration can be reported with a specified degree of confidence, accuracy and precision. For usage at AETL, RL is equivalant to LOQ.
RPD	Relative Percent Difference
SIM	Selective Ion Monitoring
SM	Standard Method
SPLP	Synthetic Precipitation Leaching Procedure
STLC	Soluble Threshold Limit Concentration
TCLP	Toxicity Characteristic Leaching Procedure
TPH	Total Petroleum Hydrocarbons
TTLC	Total Threshold Limit Concentrations
ug/kg	Micrograms per Kilogram
ug/L	Micrograms per Liter
ug/m3	Micrograms per cubic meter
WET	Waste Extraction Test
Y	Yes
ZHE	Zero Headspace Extraction

Appendix M-3

Soil Testing Memo May 2024

Project No.
16484.000.001

May 6, 2024

Ms. Bibiana Sparks
Acorn Environmental
5170 Golden Foothill Parkway
El Dorado Hills, CA 95762

Subject: Scotts Valley Development
Vallejo, California

ADDITIONAL SOIL INVESTIGATION

Reference: Montrose Environmental, Soil Sample Results, Scotts Valley, Vallejo, California. July 19, 2023.

Dear Ms. Sparks:

We are pleased to submit the findings of the requested additional tailings soil investigation performed at the subject property (Property) in Vallejo, California (Figure 1, attached).

SITE LOCATION AND BACKGROUND

The Property is located northeast of the intersection of Interstate 80 and Columbus Parkway in Vallejo, California and is approximately 128 acres in area. The Property is currently vacant with plans for residential and commercial redevelopment.

The referenced report completed by Montrose Environmental ("Montrose") collected one soil sample from three tailings piles identified as Tailings A, Tailings B, and Tailings C. The samples were analyzed for total petroleum hydrocarbons for full carbon-chain (gasoline-, diesel-, and oil-range), volatile organic compounds, polychlorinated biphenyls, semi-volatile organic compounds, organochlorine pesticides, organophosphorus pesticides, chlorinated herbicides, and Title 22 metals. Montrose concluded, "Based on the soil sample results for the site, the lead detection in the sample identified as Tailings C exceeded the DTSC residential screening level of 80 mg/kg. The lead result does not exceed the industrial screening level of 500 mg/kg. Based on the proposed future use of the property, the detections of lead should be further sampled to determine the extent of impacts."

During our review of the referenced report, we confirmed the Tailings C sample also exhibited an elevated antimony concentration of 120 mg/kg, in excess of respective residential screening level, but not the commercial/industrial screening level.

Under the authorization of Acorn Environmental ("Acorn"), we performed additional soil sampling around the three identified tailings piles (A, B, and C) with laboratory analysis of lead and antimony.

FIELD SAMPLING

Field sampling was completed on April 23, 2024, and a total of nine soil samples were collected at varying depths from representative locations within Tailings A, Tailings B, and Tailings C. Figure 2 (attached) shows approximate locations of samples. The Tailings C pile is the location of the previous sample with elevated lead and antimony. Based on field observations, the Tailings C pile is approximately 75 cubic yards in volume. Tailings piles A and B were relatively smaller than the Tailings C pile, scattered with intermittent mounds less than 3 feet in height. We estimated the volume of both Tailings A and B piles to be less than 20 cubic yards (40 cubic yards total).

We collected samples using a combination of hand sampling techniques and backhoe equipment. We placed samples in new liners secured with plastic caps and tape, which upon collection were labeled, with a unique sample number, location, time/date collected, laboratory analysis, and the sampler's identification. We placed the soil samples in an ice-cooled chest and submitted them under documented chain-of-custody to McCampbell Analytical, Inc., a state-certified laboratory in Pittsburg, California. Discrete samples from the Tailings C pile were analyzed for lead and antimony by EPA Method 6020. Discrete samples from the Tailings A and Tailings B piles were analyzed for lead by EPA Method 6020.

RESULTS

We compared the analytical results to the San Francisco Bay Regional Water Quality Control Board (SFBRWQCB) residential and commercial environmental screening levels (ESLs)[1] and Department of Toxic Substances Control (DTSC)[2] residential and commercial screening levels (SLs).

Lead concentrations ranged from 4.3 to 63 mg/kg, which do not exceed residential or commercial screening criteria.

Antimony was not detected above laboratory reporting limits (<0.5 mg/kg).

Table A (attached) provides a summary of the analytical results. Laboratory reports are presented in their entirety in Appendix A, attached.

DISCUSSION AND RECOMMENDATIONS

This additional investigation has confirmed the single previously elevated sample for lead (and antimony) reported within the Tailings C pile appears to be an outlier and is limited to a relatively small portion. Further, by evaluating all of the analyzed data for the Tailings C pile results in aggregate, the arithmetic mean lead concentration of 52 mg/kg is below residential and commercial screening criteria, indicating the lead concentrations within the Tailing C pile are a de minimis concern. However, as a conservative measure, and since the proposed development includes commercial and residential land use, Tailings C material can be appropriately managed to be located within a commercial land use area. Alternatively, a portion of Tailings C material could be offhauled and disposed of off site if desired.

---

[1] SFBRWQCB; Environmental Screening Levels (ESLs); Direct Exposure Human Health Risk Levels: Residential Shallow Soil Exposure and Commercial/Industrial Shallow Soil Exposure (Table S-1); 2019 (Rev. 2).

[2] DTSC Human and Ecological Risk Office (HERO) Note 3; Screening Levels (SLs); Table 1: Soil; Residential Soil Exposure and Commercial/Industrial; June 2020, Revised May 2022.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

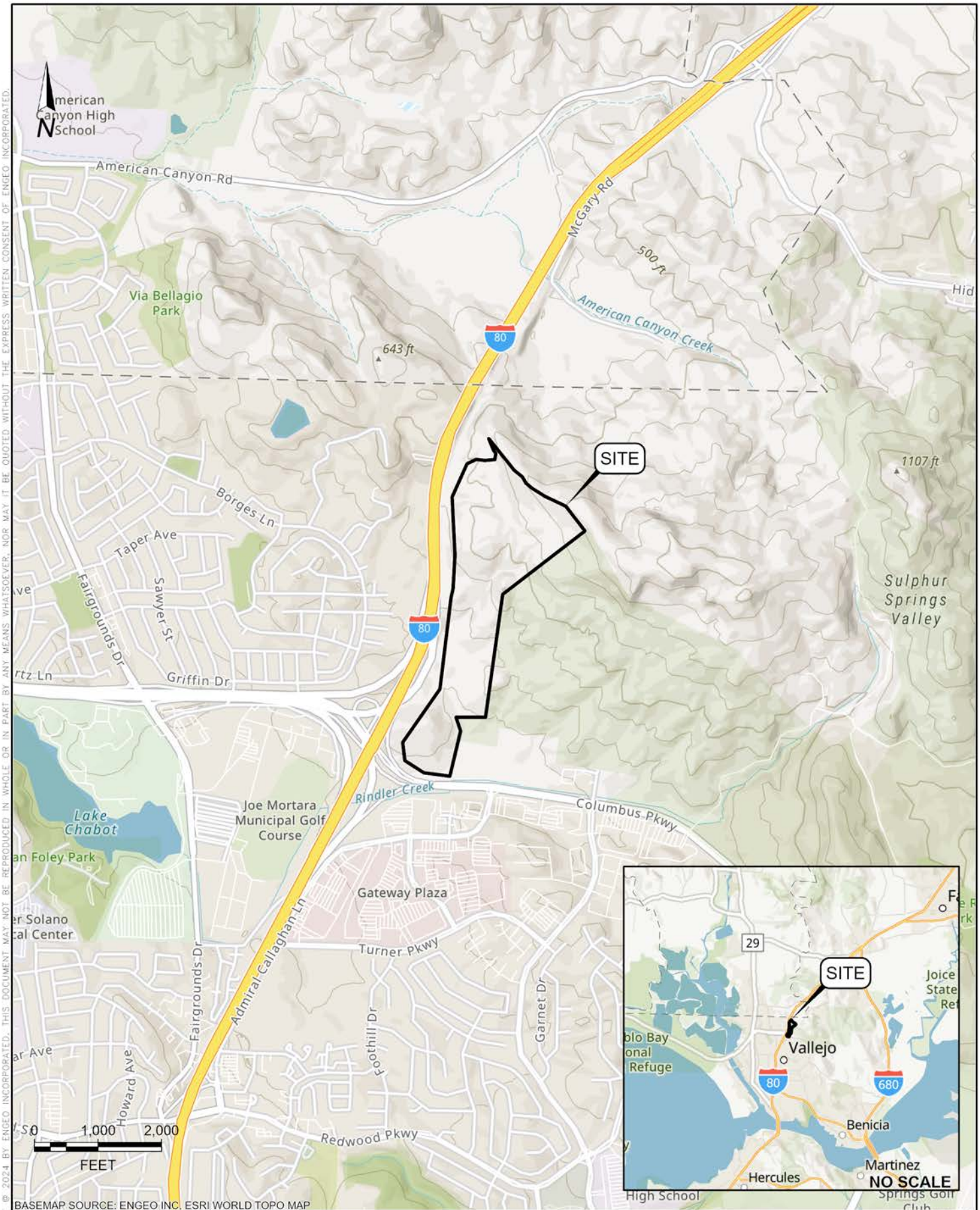
Scott Johns, PE

Jeffrey A. Adams, PhD, PE

sj/jaa/cb

Attachments: Figures 1 and 2
Table A
Appendix A – Laboratory Analytical Reports

FIGURES



BASEMAP SOURCE: ENGEO INC, ESRI WORLD TOPO MAP

ENGEO
Expect Excellence

VICINITY MAP

VALLEJO SCOTTS VALLEY

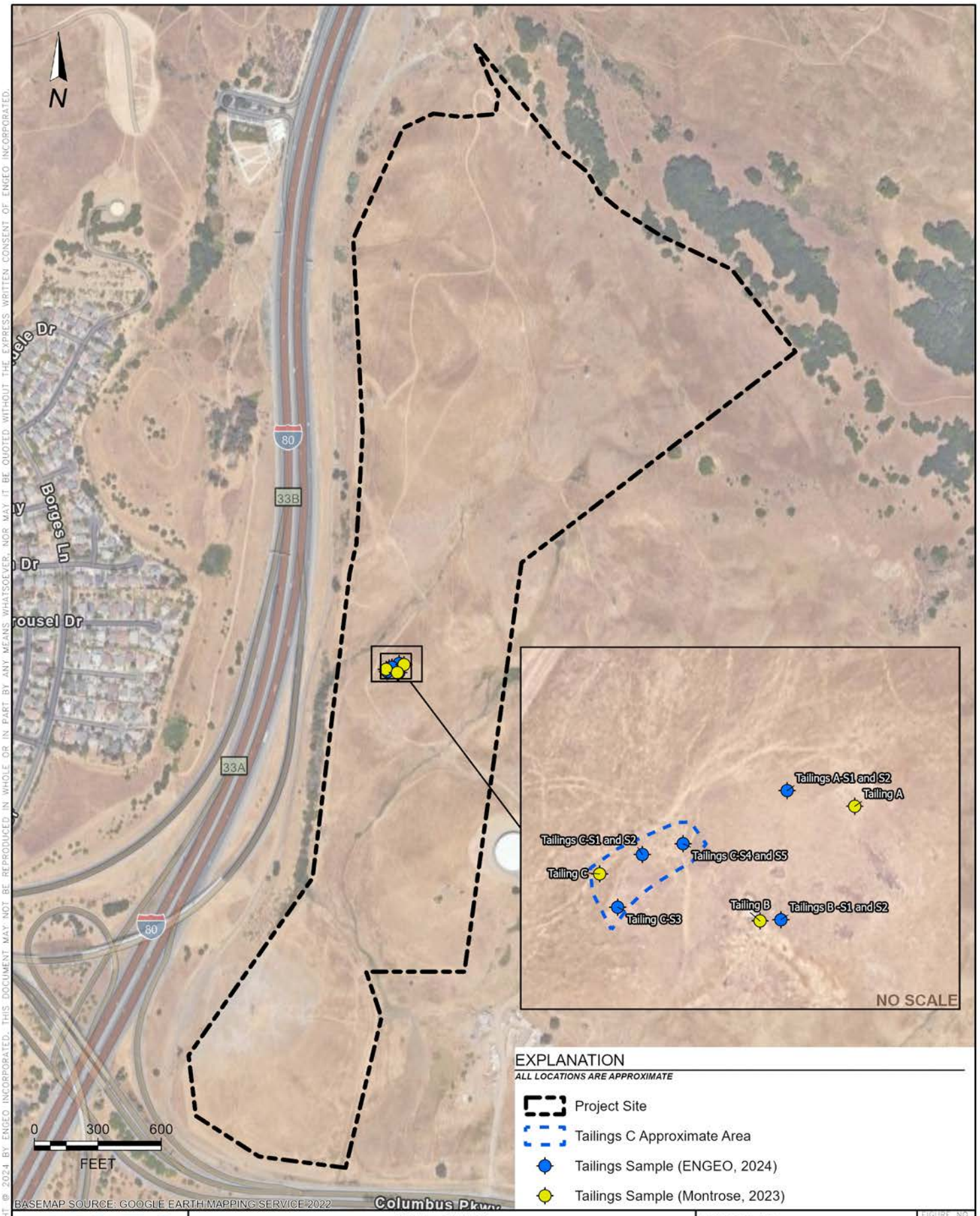
VALLEJO, CALIFORNIA

PROJECT NO. :	16484.000.001
SCALE:	AS SHOWN
DRAWN BY: CMG	CHECKED BY: SPM

FIGURE NO. 1

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: CGUERIN

ORIGINAL FIGURE PRINTED IN COLOR



BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2022

ENGEO Expect Excellence

SITE PLAN

VALLEJO SCOTTS VALLEY

VALLEJO, CALIFORNIA

PROJECT NO. :	16484.000.001
SCALE:	AS SHOWN
DRAWN BY: CMG	CHECKED BY: SPM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: CGUERIN

TABLE A

Soil Analytical Data Summary

16484.000.001
May 6, 2024

TABLE A -- Soil Analytical Data Summary

Sample ID	Depth	Date Collected	Antimony	Arsenic [7]	Barium	Beryllium	Cadmium	Chromium (total)	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc	Arsenic (6020)	Thallium (6020)
Units			mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg	mg/kg
SFBRWQCB Residential ESL [1]			**11**	**0.067 [8]**	**15,000**	**16**	**78**	**-- ***	**23**	**3,100**	**80**	**13**	**390**	**820**	**390**	**390**	**0.78**	**390**	**23,000**	**0.067 [8]**	**0.78**
SFBRWQCB Commercial ESL [2]			**160**	**0.31 [8]**	**220,000**	**230**	**1,100**	**--**	**350**	**47,000**	**320**	**190**	**5,800**	**11,000**	**5,800**	**5,800**	**12**	**5,800**	**350,000**	**0.31 [8]**	**12**
DTSC HERO Note 3 Residential SL [3]			**--**	**0.11 [8]**	**--**	**16**	**7.1**	**--**	**--**	**--**	**80**	**1.0**	**--**	**820**	**--**	**--**	**--**	**--**	**--**	**0.11 [8]**	**--**
DTSC HERO Note 3 Commercial SL [4]			**--**	**0.36 [8]**	**--**	**230**	**79**	**--**	**--**	**--**	**500**	**4.4**	**--**	**11,000**	**--**	**--**	**--**	**--**	**--**	**0.36 [8]**	**--**
USEPA Residential RSL [5]			**31**	**0.68 [8]**	**15,000**	**160**	**7.1**	**--**	**23**	**3,100**	**400**	**11**	**390**	**1,500**	**390**	**390**	**0.78**	**390**	**23000**	**0.68 [8]**	**390**
USEPA Industrial RSL [6]			**470**	**3 [8]**	**220,000**	**2,300**	**100**	**--**	**350**	**47,000**	**800**	**46**	**5,800**	**22,000**	**5,800**	**5,800**	**12**	**5,800**	**350,000**	**3 [8]**	**5,800**
Tailing A	--	6/27/2023	<2.9	4.7	660	<0.49	<0.49	55	15	82	27	<0.15	<0.97	91	<2.9	<0.49	<2.9	42	62	7.2	<0.97
Tailing B	--	6/27/2023	<3.0	6.9	220	<0.50	<0.50	50	14	46	25	<0.16	<0.99	86	<3.0	<0.50	<3.0	40	54	10	<0.99
Tailing C	--	6/27/2023	120	5.5	2,300	<0.48	<0.48	26	10	150	280	0.2	<0.95	46	<2.9	<0.48	<2.9	42	48	8.4	<0.95
Composite	--	6/27/2023	<2.9	4.6	1,400	<0.49	<0.49	43	12	83	43	<0.16	<0.98	76	<2.9	<0.49	<2.9	40	61	6.8	<0.98
Tailing C-S1	1ft	4/23/2024	<0.5	--	--	--	--	--	--	--	10	--	--	--	--	--	--	--	--	--	--
Tailing C-S2	3ft	4/23/2024	<0.5	--	--	--	--	--	--	--	7.6	--	--	--	--	--	--	--	--	--	--
Tailing C-S3	1ft	4/23/2024	<0.5	--	--	--	--	--	--	--	6.5	--	--	--	--	--	--	--	--	--	--
Tailing C-S4	1ft	4/23/2024	<0.5	--	--	--	--	--	--	--	4.3	--	--	--	--	--	--	--	--	--	--
Tailing C-S5	3ft	4/23/2024	<0.5	--	--	--	--	--	--	--	13	--	--	--	--	--	--	--	--	--	--
Tailing B-S1	1ft	4/23/2024	--	--	--	--	--	--	--	--	55	--	--	--	--	--	--	--	--	--	--
Tailing B-S2	3ft	4/23/2024	--	--	--	--	--	--	--	--	63	--	--	--	--	--	--	--	--	--	--
Tailing A-S1	1ft	4/23/2024	--	--	--	--	--	--	--	--	9.3	--	--	--	--	--	--	--	--	--	--
Tailing A-S2	3ft	4/23/2024	--	--	--	--	--	--	--	--	12	--	--	--	--	--	--	--	--	--	--

Notes:

Results are shown in milligrams per kilogram (mg/kg).

<x.xx indicates analyte was not detected above the laboratory reporting limit of x.xx mg/kg.

-- indicates analyte was not analyzed or screening level not established.

Highlighted values exceed residential screening criteria.

Highlighted values exceed commercial screening criteria.

[1] San Francisco Bay Regional Water Quality Control Board (SFBRWQCB); Environmental Screening Levels (ESLs); Direct Exposure Human Health Risk Levels: Residential Shallow Soil Exposure (Table S-1); 2019 (Rev. 2).

[2] San Francisco Bay Regional Water Quality Control Board (SFBRWQCB); Environmental Screening Levels (ESLs); Direct Exposure Human Health Risk Levels: Commercial/Industrial Shallow Soil Exposure (Table S-1); 2019 (Rev. 2).

[3] Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Note 3; Screening Levels (SLs); Table 1: Soil; Residential Soil Exposure; June 2020, Revised May 2022.

[4] Department of Toxic Substances Control (DTSC) Human and Ecological Risk Office (HERO) Note 3; Screening Levels (SLs); Table 1: Soil; Commercial/Industrial Soil Exposure; June 2020, Revised May 2022.

[5] Environmental Protection Agency (EPA); Regional Screening Levels (RSLs); Residential Soil; November 2023.

[6] Environmental Protection Agency (EPA); Regional Screening Levels (RSLs); Industrial Soil; November 2023.

[7] The commonly accepted naturally occurring background concentration for arsenic in the urbanized Bay Area is 11 mg/kg (Duverge, D.J., Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, December 2011).

* Chromium III Residential ESL is 120,000 mg/kg.

APPENDIX A

MCCAMPBELL ANALYTICAL, INC.

Laboratory Analytical Reports

16484.000.001
May 6, 2024

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder: 2404J24

Report Created for: ENGEO Incorporated

2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634

Project Contact: Scott Johns
Project P.O.:
Project: 16484.000.001; Scotts Valley Development

Project Location:
Project Received: 04/23/2024

Analytical Report reviewed & approved for release on 05/01/2024 by:

Jena Alfaro
Project Manager

1534 Willow Pass Rd. Pittsburg, CA 94565 ♦ TEL: (877) 252-9262 ♦ FAX: (925) 252-9269 ♦ www.mccampbell.com
CA ELAP 1644 ♦ NELAP 4033 ORELAP

McCampbell Analytical, Inc.
"When Quality Counts"

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Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2404J24

Project: 16484.000.001; Scotts Valley Development

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range
SPK Val	Spike Value

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2404J24

Project: 16484.000.001; Scotts Valley Development

SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Received:	04/23/2024 13:45	**Extraction Method:**	SW3050B
Date Prepared:	04/24/2024-05/01/2024	**Analytical Method:**	SW6020
Project:	16484.000.001; Scotts Valley Development	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing C-S1	2404J24-001A	Soil	04/23/2024 09:48	ICP-MS4 178SMPL.d	292491

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	04/26/2024 14:41
Lead	**10**	0.50	1	04/26/2024 14:41

Surrogates	REC (%)	Limits	
Terbium	103	70-130	04/26/2024 14:41

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing C-S2	2404J24-002A	Soil	04/23/2024 09:53	ICP-MS5 208SMPL.d	292782

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	05/01/2024 16:34
Lead	**7.6**	0.50	1	05/01/2024 16:34

Surrogates	REC (%)	Limits	
Terbium	104	70-130	05/01/2024 16:34

Analyst(s): AL

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing C-S3	2404J24-003A	Soil	04/23/2024 10:02	ICP-MS4 179SMPL.d	292491

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	04/26/2024 14:45
Lead	**6.5**	0.50	1	04/26/2024 14:45

Surrogates	REC (%)	Limits	
Terbium	103	70-130	04/26/2024 14:45

Analyst(s): WV

(Cont.)

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Received:	04/23/2024 13:45	**Extraction Method:**	SW3050B
Date Prepared:	04/24/2024-05/01/2024	**Analytical Method:**	SW6020
Project:	16484.000.001; Scotts Valley Development	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing C-S4	2404J24-004A	Soil	04/23/2024 11:34	ICP-MS4 121SMPL.d	292334

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	04/25/2024 11:14
Lead	**4.3**	0.50	1	04/25/2024 11:14

Surrogates	REC (%)	Limits	
Terbium	104	70-130	04/25/2024 11:14

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing C-S5	2404J24-005A	Soil	04/23/2024 12:20	ICP-MS4 105SMPL.d	292338

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.50	1	04/24/2024 15:35
Lead	**13**	0.50	1	04/24/2024 15:35

Surrogates	REC (%)	Limits	
Terbium	109	70-130	04/24/2024 15:35

Analyst(s): MIG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing B-S1	2404J24-006A	Soil	04/23/2024 10:43	ICP-MS4 180SMPL.d	292491

Analytes	Result	RL	DF	Date Analyzed
Lead	**55**	0.50	1	04/26/2024 14:49

Surrogates	REC (%)	Limits	
Terbium	108	70-130	04/26/2024 14:49

Analyst(s): WV

(Cont.)

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Received:	04/23/2024 13:45	**Extraction Method:**	SW3050B
Date Prepared:	04/24/2024-05/01/2024	**Analytical Method:**	SW6020
Project:	16484.000.001; Scotts Valley Development	**Unit:**	mg/kg

Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing B-S2	2404J24-007A	Soil	04/23/2024 10:45	ICP-MS4 124SMPL.d	292338

Analytes	Result	RL	DF	Date Analyzed
Lead	**63**	0.50	1	04/25/2024 11:26

Surrogates	REC (%)	Limits	
Terbium	106	70-130	04/25/2024 11:26

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing A-S1	2404J24-008A	Soil	04/23/2024 11:43	ICP-MS4 181SMPL.d	292491

Analytes	Result	RL	DF	Date Analyzed
Lead	**9.3**	0.50	1	04/26/2024 14:53

Surrogates	REC (%)	Limits	
Terbium	107	70-130	04/26/2024 14:53

Analyst(s): WV

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailing A-S2	2404J24-009A	Soil	04/23/2024 11:50	ICP-MS4 125SMPL.d	292338

Analytes	Result	RL	DF	Date Analyzed
Lead	**12**	0.50	1	04/25/2024 11:30

Surrogates	REC (%)	Limits	
Terbium	104	70-130	04/25/2024 11:30

Analyst(s): WV

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Prepared:	04/24/2024	**BatchID:**	292334
Date Analyzed:	04/24/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS5	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.000.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-292334

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.10	0.50	-	-	-
Lead	ND	0.089	0.50	-	-	-
Surrogate Recovery						
Terbium	510			500	102	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	48	48	50	96	97	75-125	0.737	20
Lead	49	49	50	98	98	75-125	0.493	20
Surrogate Recovery								
Terbium	520	500	500	104	100	70-130	3.66	20

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Prepared:	04/24/2024	**BatchID:**	292338
Date Analyzed:	04/24/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.000.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-292338 2404J24-005AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.10	0.50	-	-	-
Lead	ND	0.089	0.50	-	-	-
Surrogate Recovery						
Terbium	540			500	108	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	50	52	50	100	104	75-125	3.79	20
Lead	51	50	50	101	101	75-125	0.512	20
Surrogate Recovery								
Terbium	550	560	500	110	112	70-130	1.55	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	1	49	50	50	ND	98	101	75-125	2.76	20
Lead	1	55	56	50	12.58	86	88	75-125	1.76	20
Surrogate Recovery										
Terbium	1	530	560	500		106	111	70-130	4.48	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND		-
Lead	13	13	2.36	20

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Prepared:	04/25/2024	**BatchID:**	292491
Date Analyzed:	04/26/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.000.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-292491

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.10	0.50	-	-	-
Lead	ND	0.089	0.50	-	-	-
Surrogate Recovery						
Terbium	540			500	109	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	51	51	50	102	103	75-125	1.24	20
Lead	50	50	50	101	100	75-125	0.846	20
Surrogate Recovery								
Terbium	540	540	500	108	108	70-130	0.0702	20

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2404J24
Date Prepared:	05/01/2024	**BatchID:**	292782
Date Analyzed:	05/01/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS5	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.000.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-292782

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.10	0.50	-	-	-
Lead	ND	0.089	0.50	-	-	-
Surrogate Recovery						
Terbium	530			500	105	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	54	53	50	108	106	75-125	1.14	20
Lead	52	51	50	104	101	75-125	2.99	20
Surrogate Recovery								
Terbium	530	530	500	106	105	70-130	0.731	20

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Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2404J24 **ClientCode: ENGE**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☒ Detection Summary ☑ Excel []

Report to:
Scott Johns
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
(925) 866-9000 FAX: 888-279-2698

Email: sjohns@engeo.com
cc/3rd Party:
PO:
Project: 16484.000.001; Scotts Valley Development

Bill to:
Chantelle Maloney
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
AP@engeo.com; cmaloney@engeo.co

Requested TAT: 5 days;

Date Received: **04/23/2024**
Date Logged: **04/23/2024**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2404J24-001	Tailing C-S1	Soil	4/23/2024 09:48	☐	A	A										
2404J24-002	Tailing C-S2	Soil	4/23/2024 09:53	☐	A	A										
2404J24-003	Tailing C-S3	Soil	4/23/2024 10:02	☐	A	A										
2404J24-004	Tailing C-S4	Soil	4/23/2024 11:34	☐	A	A										
2404J24-005	Tailing C-S5	Soil	4/23/2024 12:20	☐	A	A										
2404J24-006	Tailing B-S1	Soil	4/23/2024 10:43	☐	A	A										
2404J24-007	Tailing B-S2	Soil	4/23/2024 10:45	☐	A	A										
2404J24-008	Tailing A-S1	Soil	4/23/2024 11:43	☐	A	A										
2404J24-009	Tailing A-S2	Soil	4/23/2024 11:50	☐	A	A										

Test Legend:

1	METALSMS_TTLC_S	2	PRDisposal Fee	3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Natalie Zaragoza

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email: sjohns@engeo.com

Project: 16484.000.001; Scotts Valley Development
Comments:

Work Order: 2404J24
QC Level: LEVEL 2
Date Logged: 4/23/2024

☐ WaterTrax ☐ CLIP ☐ EDF ☑ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Tailing C-S1	Soil	SW6020 (Metals) <Antimony, Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 9:48	5 days	4/30/2024		☐	☐
002A	Tailing C-S2	Soil	SW6020 (Metals) <Antimony, Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 9:53	5 days	4/30/2024		☐	☐
003A	Tailing C-S3	Soil	SW6020 (Metals) <Antimony, Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 10:02	5 days	4/30/2024		☐	☐
004A	Tailing C-S4	Soil	SW6020 (Metals) <Antimony, Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 11:34	5 days	4/30/2024		☐	☐
005A	Tailing C-S5	Soil	SW6020 (Metals) <Antimony, Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 12:20	5 days	4/30/2024		☐	☐
006A	Tailing B-S1	Soil	SW6020 (Metals) <Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 10:43	5 days	4/30/2024		☐	☐
007A	Tailing B-S2	Soil	SW6020 (Metals) <Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 10:45	5 days	4/30/2024		☐	☐
008A	Tailing A-S1	Soil	SW6020 (Metals) <Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 11:43	5 days	4/30/2024		☐	☐
009A	Tailing A-S2	Soil	SW6020 (Metals) <Lead>	1	Stainless Steel tube 2"x6"	☐	☐	☐	4/23/2024 11:50	5 days	4/30/2024		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email: sjohns@engeo.com

Project: 16484.000.001; Scotts Valley Development
Comments:

Work Order: 2404J24
QC Level: LEVEL 2
Date Logged: 4/23/2024

☐ WaterTrax ☐ CLIP ☐ EDF ☑ Excel ☑ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

2404J24

CHAIN OF CUSTODY RECORD

PROJECT NUMBER: 16484.000.001
PROJECT NAME: Scotts Valley Developement
SAMPLED BY: (SIGNATURE/PRINT) Lars Besson [signature]
PROJECT MANAGER: Scott Johns
ROUTING: E-MAIL sjohns@engeo.com | Hard Copy NA

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	Lead (6010B)	Antimony (6010B)	REMARKS REQUIRED DETECTION LIMITS
Tailing C-S1	4/23/24	9:48	soil	1	2x6 liner	ICE	X	X	
Tailing C-S2	↓	9:53	↓	↓	↓	↓	X	X	
Tailing C-S3	↓	10:02	↓	↓	↓	↓	X	X	
Tailing C-S4	↓	11:34	↓	↓	↓	↓	X	X	
Tailing C-S5	↓	12:20	↓	↓	↓	↓	X	X	
Tailing B-S1	↓	10:43	↓	↓	↓	↓	X		
Tailing B-S2	↓	10:45	↓	↓	↓	↓	X		
Tailing A-S1	↓	11:43	↓	↓	↓	↓	X		
Tailing A-S2	↓	11:50	↓	↓	↓	↓	X		

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	4/23/24 1:45	[signature] 4/23/24 1345			

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
			3.1 [illegible]		

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME

REMARKS
Standard 5-day TAT.
Homogenzie samples.

ENGEO
INCORPORATED

2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

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Sample Receipt Checklist

Client Name:	ENGEO Incorporated	Date and Time Received:	4/23/2024 13:45
Project:	16484.000.001; Scotts Valley Development	Date Logged:	4/23/2024
		Received by:	Lilly Ortiz
WorkOrder №:	2404J24 Matrix:	Logged by:	Natalie Zaragoza
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐	
Chain of custody signed when relinquished and received?	Yes	☑	No	☐	
Chain of custody agrees with sample labels?	Yes	☑	No	☐	
Sample IDs noted by Client on COC?	Yes	☑	No	☐	
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐	
Sampler's name noted on COC?	Yes	☑	No	☐	
COC agrees with Quote?	Yes	☐	No	☐	NA ☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA ☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA ☑
Shipping container/cooler in good condition?	Yes	☑	No	☐	
Samples in proper containers/bottles?	Yes	☑	No	☐	
Sample containers intact?	Yes	☑	No	☐	
Sufficient sample volume for indicated test?	Yes	☑	No	☐	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA ☐
Samples Received on Ice?	Yes	☑	No	☐	
(Ice Type: WET ICE)					
Sample/Temp Blank temperature	Temp: 3.1°C				NA ☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA ☑
Sample labels checked for correct preservation?	Yes	☑	No	☐	
pH acceptable upon receipt (Metal: <2; Nitrate 353.2/4500NO3: <2; 522: <4; 218.7: >8)?	Yes	☐	No	☐	NA ☑
UCMR Samples:					
pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA ☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA ☑

Comments:

Appendix M-4

Soil Testing Memo July 2024

July 1, 2024

Project No.
16484.001.001

Mr. Casey Spanish
Integrated Resort Development
3330 West Desert Inn Road
Las Vegas, NV 89102

Subject: Scotts Valley Development
Vallejo, California

STOCKPILE TESTING FOR DISPOSAL

Dear Mr. Spanish:

ENGEO was retained by Integrated Resort Development (IRD) to perform sample collection with laboratory analysis for a stockpile of approximately 75 cubic yards in volume. The stockpile, identified as Tailings C pile, is located within the Scotts Valley Development project in Vallejo, California (see Figure 1, attached) and IRD would like to dispose of it off site.

SOIL SAMPLING AND LABORATORY TESTING

ENGEO collected four soil samples from the stockpile using typical hand sampling equipment.

We did not observe visual or olfactory evidence of impact.

Soil samples were collected in 2-inch-by-6-inch stainless-steel liners, sealed with Teflon® sheeting and snug-fitting end caps. Samples were placed into an ice-cooled chest and delivered to an accredited analytical laboratory under documented chain-of-custody.

The outside laboratory analyzed samples on a discrete basis and metals on a 4:1 composite basis, for the following.

- CAM-17 metals (EPA Method 6020 and EPA Method 7471A; composite)
- Organochlorine pesticides (OCPs) (EPA Method 8081, discrete)
- Polychlorinated biphenyls (PCBs) (EPA Method 8082, discrete)
- Volatile organic compounds (VOCs) with total petroleum hydrocarbons as gasoline (TPH-g) (EPA Method 8260B, discrete)
- Semi-volatile organic compounds (SVOCs) (EPA Method 8270, discrete)
- Total petroleum hydrocarbons as diesel and motor oil (TPH-d and -mo) (EPA Method 8015M, discrete)
- STLC extraction and analysis

ANALYTICAL RESULTS

Laboratory reports are attached.

As expected, several metals were detected and include the following: arsenic (2.9 milligrams per kilogram (mg/kg)), barium (1,700 mg/kg), beryllium (0.8 mg/kg), chromium (77 mg/kg), cobalt (13 mg/kg), copper (200 mg/kg), lead (9.2 mg/kg), mercury (0.17 mg/kg), nickel (120 mg/kg), selenium (0.65 mg/kg), vanadium (72 mg/kg), and zinc (72 mg/kg). Supplemental STLC-barium and STLC-chromium analysis was performed and reported 39 milligrams per liter (mg/L) and not detectable at or above laboratory the respective reporting limit (ND), respectively.

The samples did not exhibit TPH-g concentrations above laboratory reporting limits. TPH-d was also not detectable above laboratory reporting limits. TPH-mo concentrations ranged from ND to 11 mg/kg.

VOCs and SVOCs were not detectable above laboratory report limits with the exception of toluene that reported ND to 0.013 mg/kg.

OCPs were not detectable above laboratory reporting limits.

PCBs were not detectable above laboratory reporting limits.

FINDINGS

None of the detected concentrations exceed respective San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels[1] (ESLs) for a residential or commercial use exposure scenario with the exception of arsenic; however, arsenic concentrations are within the typical natural background concentration of 11 mg/kg[2].

IRD would like to dispose of stockpile soil off site, and given this assessment, it is our opinion that a landfill facility would classify the material as Class II non-hazardous waste for disposal purposes. Material is likely also suitable for daily landfill cover which is less expensive. Project data should be provided to potential landfill dispose sites to profile and confirm material is suitable for disposal at their facility.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

Scott Johns, PE

Shawn Munger, CHG

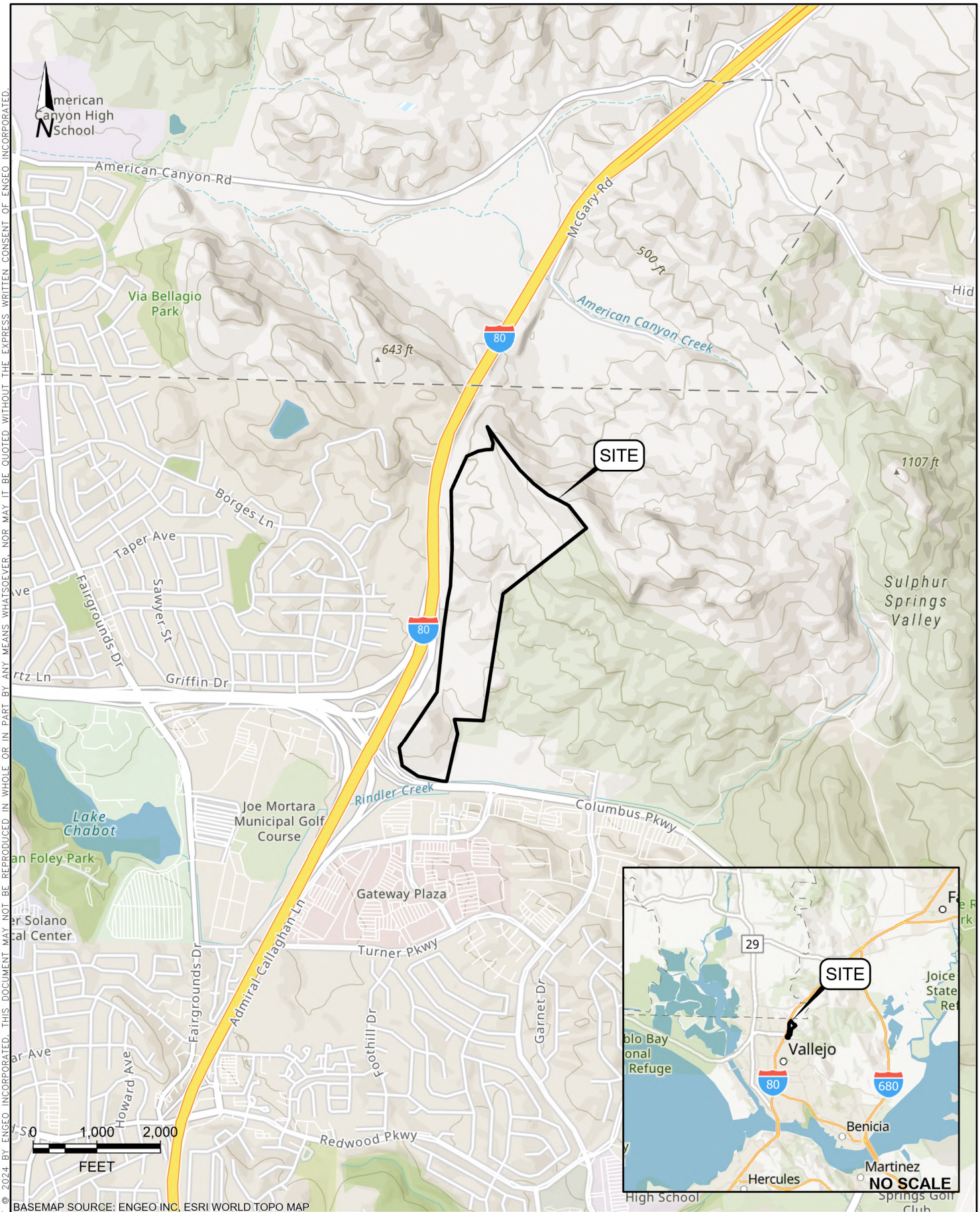
sj/sm/cb

Attachments: Figures
Laboratory Reports

[1] RWQCB ESLs, Direct Exposure Human Health Risk Levels (Table S-1), Residential and Commercial/Industrial: Shallow Soil Exposure; 2019, Rev 2.

[2] Duvergé, Establishing Background Arsenic in Soil of the Urbanized San Francisco Bay Region, December 2011.

FIGURES



BASEMAP SOURCE: ENGEO INC, ESRI WORLD TOPO MAP

ENGEO Expect Excellence

VICINITY MAP

VALLEJO SCOTTS VALLEY

VALLEJO, CALIFORNIA

PROJECT NO. :	16484.001.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: MHAWKINS

BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2022

ENGEO
Expect Excellence

SITE PLAN

VALLEJO SCOTTS VALLEY

VALLEJO, CALIFORNIA

PROJECT NO. :	16484.001.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: MHAWKINS

LABORATORY REPORTS

16484.001.001
July 1, 2024

McCampbell Analytical, Inc.

"When Quality Counts"

Analytical Report

WorkOrder:	2406324	**Amended:**	06/25/2024
		Revision:	1
Report Created for:	ENGEO Incorporated		
	2010 Crow Canyon Place, Ste 250 San Ramon, CA 94583-4634		
Project Contact:	Scott Johns		
Project P.O.:			
Project:	16484.001.001; Scotts Valley Development		
Project Location:			
Project Received:	06/05/2024		

Analytical Report reviewed & approved for release on 06/12/2024 by:

Jena Alfaro
Project Manager

McCampbell Analytical, Inc.
"When Quality Counts"

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Revision History

Client: ENGEO Incorporated **WorkOrder:** 2406324

Project: 16484.001.001; Scotts Valley Development

Date	Revision	Reason
06/25/2024	1	Revised to remove discrete metals and add composite metals in dry weight with percent moisture.

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Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2406324

Project: 16484.001.001; Scotts Valley Development

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range
SPK Val	Spike Value

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2406324

Project: 16484.001.001; Scotts Valley Development

SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

Analytical Qualifiers

J	Result is less than the RL/ML but greater than the MDL. The reported concentration is an estimated value.
e7	Oil range compounds are detected.

Quality Control Qualifiers

F1	MS/MSD recovery and/or RPD is out of acceptance criteria; LCS validates the prep batch.
F2	LCS/LCSD recovery and/or RPD/RSD is out of acceptance criteria.
F3	The surrogate standard recovery and/or RPD is outside of acceptance limits.

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC20 06072437.D	295213

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	06/08/2024 01:53
a-BHC	ND	0.0010	1	06/08/2024 01:53
b-BHC	ND	0.0010	1	06/08/2024 01:53
d-BHC	ND	0.0010	1	06/08/2024 01:53
g-BHC	ND	0.0010	1	06/08/2024 01:53
Chlordane (Technical)	ND	0.025	1	06/08/2024 01:53
a-Chlordane	ND	0.0010	1	06/08/2024 01:53
g-Chlordane	ND	0.0010	1	06/08/2024 01:53
p,p-DDD	ND	0.0010	1	06/08/2024 01:53
p,p-DDE	ND	0.0010	1	06/08/2024 01:53
p,p-DDT	ND	0.0010	1	06/08/2024 01:53
Dieldrin	ND	0.0010	1	06/08/2024 01:53
Endosulfan I	ND	0.0010	1	06/08/2024 01:53
Endosulfan II	ND	0.0010	1	06/08/2024 01:53
Endosulfan sulfate	ND	0.0010	1	06/08/2024 01:53
Endrin	ND	0.0010	1	06/08/2024 01:53
Endrin aldehyde	ND	0.0010	1	06/08/2024 01:53
Endrin ketone	ND	0.0010	1	06/08/2024 01:53
Heptachlor	ND	0.0010	1	06/08/2024 01:53
Heptachlor epoxide	ND	0.0010	1	06/08/2024 01:53
Hexachlorobenzene	ND	0.010	1	06/08/2024 01:53
Hexachlorocyclopentadiene	ND	0.020	1	06/08/2024 01:53
Methoxychlor	ND	0.0010	1	06/08/2024 01:53
Toxaphene	ND	0.20	1	06/08/2024 01:53
Aroclor1016	ND	0.050	1	06/08/2024 01:53
Aroclor1221	ND	0.050	1	06/08/2024 01:53
Aroclor1232	ND	0.050	1	06/08/2024 01:53
Aroclor1242	ND	0.050	1	06/08/2024 01:53
Aroclor1248	ND	0.050	1	06/08/2024 01:53
Aroclor1254	ND	0.050	1	06/08/2024 01:53
Aroclor1260	ND	0.050	1	06/08/2024 01:53
PCBs, total	ND	0.050	1	06/08/2024 01:53

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC20 06072437.D	295213

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Decachlorobiphenyl	104	60-130		06/08/2024 01:53

Analyst(s): CK

(Cont.)

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC20 06072441.D	295213

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	06/08/2024 03:00
a-BHC	ND	0.0010	1	06/08/2024 03:00
b-BHC	ND	0.0010	1	06/08/2024 03:00
d-BHC	ND	0.0010	1	06/08/2024 03:00
g-BHC	ND	0.0010	1	06/08/2024 03:00
Chlordane (Technical)	ND	0.025	1	06/08/2024 03:00
a-Chlordane	ND	0.0010	1	06/08/2024 03:00
g-Chlordane	ND	0.0010	1	06/08/2024 03:00
p,p-DDD	ND	0.0010	1	06/08/2024 03:00
p,p-DDE	ND	0.0010	1	06/08/2024 03:00
p,p-DDT	ND	0.0010	1	06/08/2024 03:00
Dieldrin	ND	0.0010	1	06/08/2024 03:00
Endosulfan I	ND	0.0010	1	06/08/2024 03:00
Endosulfan II	ND	0.0010	1	06/08/2024 03:00
Endosulfan sulfate	ND	0.0010	1	06/08/2024 03:00
Endrin	ND	0.0010	1	06/08/2024 03:00
Endrin aldehyde	ND	0.0010	1	06/08/2024 03:00
Endrin ketone	ND	0.0010	1	06/08/2024 03:00
Heptachlor	ND	0.0010	1	06/08/2024 03:00
Heptachlor epoxide	ND	0.0010	1	06/08/2024 03:00
Hexachlorobenzene	ND	0.010	1	06/08/2024 03:00
Hexachlorocyclopentadiene	ND	0.020	1	06/08/2024 03:00
Methoxychlor	ND	0.0010	1	06/08/2024 03:00
Toxaphene	ND	0.20	1	06/08/2024 03:00
Aroclor1016	ND	0.050	1	06/08/2024 03:00
Aroclor1221	ND	0.050	1	06/08/2024 03:00
Aroclor1232	ND	0.050	1	06/08/2024 03:00
Aroclor1242	ND	0.050	1	06/08/2024 03:00
Aroclor1248	ND	0.050	1	06/08/2024 03:00
Aroclor1254	ND	0.050	1	06/08/2024 03:00
Aroclor1260	ND	0.050	1	06/08/2024 03:00
PCBs, total	ND	0.050	1	06/08/2024 03:00

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC20 06072441.D	295213

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Decachlorobiphenyl	85	60-130		06/08/2024 03:00

Analyst(s): CK

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC20 06072449.D	295213

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	06/08/2024 05:12
a-BHC	ND	0.0010	1	06/08/2024 05:12
b-BHC	ND	0.0010	1	06/08/2024 05:12
d-BHC	ND	0.0010	1	06/08/2024 05:12
g-BHC	ND	0.0010	1	06/08/2024 05:12
Chlordane (Technical)	ND	0.025	1	06/08/2024 05:12
a-Chlordane	ND	0.0010	1	06/08/2024 05:12
g-Chlordane	ND	0.0010	1	06/08/2024 05:12
p,p-DDD	ND	0.0010	1	06/08/2024 05:12
p,p-DDE	ND	0.0010	1	06/08/2024 05:12
p,p-DDT	ND	0.0010	1	06/08/2024 05:12
Dieldrin	ND	0.0010	1	06/08/2024 05:12
Endosulfan I	ND	0.0010	1	06/08/2024 05:12
Endosulfan II	ND	0.0010	1	06/08/2024 05:12
Endosulfan sulfate	ND	0.0010	1	06/08/2024 05:12
Endrin	ND	0.0010	1	06/08/2024 05:12
Endrin aldehyde	ND	0.0010	1	06/08/2024 05:12
Endrin ketone	ND	0.0010	1	06/08/2024 05:12
Heptachlor	ND	0.0010	1	06/08/2024 05:12
Heptachlor epoxide	ND	0.0010	1	06/08/2024 05:12
Hexachlorobenzene	ND	0.010	1	06/08/2024 05:12
Hexachlorocyclopentadiene	ND	0.020	1	06/08/2024 05:12
Methoxychlor	ND	0.0010	1	06/08/2024 05:12
Toxaphene	ND	0.20	1	06/08/2024 05:12
Aroclor1016	ND	0.050	1	06/08/2024 05:12
Aroclor1221	ND	0.050	1	06/08/2024 05:12
Aroclor1232	ND	0.050	1	06/08/2024 05:12
Aroclor1242	ND	0.050	1	06/08/2024 05:12
Aroclor1248	ND	0.050	1	06/08/2024 05:12
Aroclor1254	ND	0.050	1	06/08/2024 05:12
Aroclor1260	ND	0.050	1	06/08/2024 05:12
PCBs, total	ND	0.050	1	06/08/2024 05:12

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC20 06072449.D	295213

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Decachlorobiphenyl	83	60-130		06/08/2024 05:12

Analyst(s): CK

(Cont.)

CA ELAP 1644 • NELAP 4033ORELAP

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC20 06072442.D	295213

Analytes	Result	RL	DF	Date Analyzed
Aldrin	ND	0.0010	1	06/08/2024 03:16
a-BHC	ND	0.0010	1	06/08/2024 03:16
b-BHC	ND	0.0010	1	06/08/2024 03:16
d-BHC	ND	0.0010	1	06/08/2024 03:16
g-BHC	ND	0.0010	1	06/08/2024 03:16
Chlordane (Technical)	ND	0.025	1	06/08/2024 03:16
a-Chlordane	ND	0.0010	1	06/08/2024 03:16
g-Chlordane	ND	0.0010	1	06/08/2024 03:16
p,p-DDD	ND	0.0010	1	06/08/2024 03:16
p,p-DDE	ND	0.0010	1	06/08/2024 03:16
p,p-DDT	ND	0.0010	1	06/08/2024 03:16
Dieldrin	ND	0.0010	1	06/08/2024 03:16
Endosulfan I	ND	0.0010	1	06/08/2024 03:16
Endosulfan II	ND	0.0010	1	06/08/2024 03:16
Endosulfan sulfate	ND	0.0010	1	06/08/2024 03:16
Endrin	ND	0.0010	1	06/08/2024 03:16
Endrin aldehyde	ND	0.0010	1	06/08/2024 03:16
Endrin ketone	ND	0.0010	1	06/08/2024 03:16
Heptachlor	ND	0.0010	1	06/08/2024 03:16
Heptachlor epoxide	ND	0.0010	1	06/08/2024 03:16
Hexachlorobenzene	ND	0.010	1	06/08/2024 03:16
Hexachlorocyclopentadiene	ND	0.020	1	06/08/2024 03:16
Methoxychlor	ND	0.0010	1	06/08/2024 03:16
Toxaphene	ND	0.20	1	06/08/2024 03:16
Aroclor1016	ND	0.050	1	06/08/2024 03:16
Aroclor1221	ND	0.050	1	06/08/2024 03:16
Aroclor1232	ND	0.050	1	06/08/2024 03:16
Aroclor1242	ND	0.050	1	06/08/2024 03:16
Aroclor1248	ND	0.050	1	06/08/2024 03:16
Aroclor1254	ND	0.050	1	06/08/2024 03:16
Aroclor1260	ND	0.050	1	06/08/2024 03:16
PCBs, total	ND	0.050	1	06/08/2024 03:16

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8081B/8082A
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Organochlorine Pesticides + PCBs

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC20 06072442.D	295213

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Decachlorobiphenyl	81	60-130		06/08/2024 03:16

Analyst(s): CK

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	**2406324-001A**	**Soil**	**06/05/2024 13:30**	**GC38 06102409.D**	**295160**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/10/2024 13:52

Surrogates	REC (%)	Limits	
Dibromofluoromethane	94	70-140	06/10/2024 13:52
Benzene-D6	84	50-140	06/10/2024 13:52

Analyst(s): TW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	**2406324-002A**	**Soil**	**06/05/2024 13:45**	**GC38 06102411.D**	**295160**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/10/2024 15:08

Surrogates	REC (%)	Limits	
Dibromofluoromethane	92	70-140	06/10/2024 15:08
Benzene-D6	87	50-140	06/10/2024 15:08

Analyst(s): TW

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	**2406324-003A**	**Soil**	**06/05/2024 14:02**	**GC38 06102412.D**	**295160**

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/10/2024 15:45

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-140	06/10/2024 15:45
Benzene-D6	87	50-140	06/10/2024 15:45

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

TPH(g)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC38 06102413.D	295160

Analytes	Result	RL	DF	Date Analyzed
TPH(g)	ND	0.25	1	06/10/2024 16:23

Surrogates	REC (%)	Limits	
Dibromofluoromethane	93	70-140	06/10/2024 16:23
Benzene-D6	86	50-140	06/10/2024 16:23

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC38 06102409.D	295160

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	1	06/10/2024 13:52
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/10/2024 13:52
Benzene	ND	0.0050	1	06/10/2024 13:52
Bromobenzene	ND	0.0050	1	06/10/2024 13:52
Bromochloromethane	ND	0.0050	1	06/10/2024 13:52
Bromodichloromethane	ND	0.0050	1	06/10/2024 13:52
Bromoform	ND	0.0050	1	06/10/2024 13:52
Bromomethane	ND	0.0050	1	06/10/2024 13:52
2-Butanone (MEK)	ND	0.10	1	06/10/2024 13:52
t-Butyl alcohol (TBA)	ND	0.050	1	06/10/2024 13:52
n-Butyl benzene	ND	0.0050	1	06/10/2024 13:52
sec-Butyl benzene	ND	0.0050	1	06/10/2024 13:52
tert-Butyl benzene	ND	0.0050	1	06/10/2024 13:52
Carbon Disulfide	ND	0.0050	1	06/10/2024 13:52
Carbon Tetrachloride	ND	0.0050	1	06/10/2024 13:52
Chlorobenzene	ND	0.0050	1	06/10/2024 13:52
Chloroethane	ND	0.0050	1	06/10/2024 13:52
Chloroform	ND	0.0050	1	06/10/2024 13:52
Chloromethane	ND	0.0050	1	06/10/2024 13:52
2-Chlorotoluene	ND	0.0050	1	06/10/2024 13:52
4-Chlorotoluene	ND	0.0050	1	06/10/2024 13:52
Dibromochloromethane	ND	0.0050	1	06/10/2024 13:52
1,2-Dibromo-3-chloropropane	ND	0.00050	1	06/10/2024 13:52
1,2-Dibromoethane (EDB)	ND	0.00025	1	06/10/2024 13:52
Dibromomethane	ND	0.0050	1	06/10/2024 13:52
1,2-Dichlorobenzene	ND	0.0050	1	06/10/2024 13:52
1,3-Dichlorobenzene	ND	0.0050	1	06/10/2024 13:52
1,4-Dichlorobenzene	ND	0.0050	1	06/10/2024 13:52
Dichlorodifluoromethane	ND	0.0050	1	06/10/2024 13:52
1,1-Dichloroethane	ND	0.0050	1	06/10/2024 13:52
1,2-Dichloroethane (1,2-DCA)	ND	0.00010	1	06/10/2024 13:52
1,1-Dichloroethene	ND	0.0050	1	06/10/2024 13:52
cis-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 13:52
trans-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 13:52
1,2-Dichloropropane	ND	0.0050	1	06/10/2024 13:52
1,3-Dichloropropane	ND	0.0050	1	06/10/2024 13:52

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC38 06102409.D	295160

Analytes	Result	RL	DF	Date Analyzed
2,2-Dichloropropane	ND	0.0050	1	06/10/2024 13:52
1,1-Dichloropropene	ND	0.0050	1	06/10/2024 13:52
cis-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 13:52
trans-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 13:52
Diisopropyl ether (DIPE)	ND	0.0050	1	06/10/2024 13:52
Ethylbenzene	ND	0.0050	1	06/10/2024 13:52
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/10/2024 13:52
Freon 113	ND	0.0050	1	06/10/2024 13:52
Hexachlorobutadiene	ND	0.0050	1	06/10/2024 13:52
Hexachloroethane	ND	0.0050	1	06/10/2024 13:52
2-Hexanone	ND	0.0050	1	06/10/2024 13:52
Isopropylbenzene	ND	0.0050	1	06/10/2024 13:52
4-Isopropyl toluene	ND	0.0050	1	06/10/2024 13:52
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/10/2024 13:52
Methylene chloride	ND	0.020	1	06/10/2024 13:52
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/10/2024 13:52
Naphthalene	ND	0.0050	1	06/10/2024 13:52
n-Propyl benzene	ND	0.0050	1	06/10/2024 13:52
Styrene	ND	0.0050	1	06/10/2024 13:52
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 13:52
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 13:52
Tetrachloroethene	ND	0.0050	1	06/10/2024 13:52
Toluene	**0.013**	0.0050	1	06/10/2024 13:52
1,2,3-Trichlorobenzene	ND	0.0050	1	06/10/2024 13:52
1,2,4-Trichlorobenzene	ND	0.0050	1	06/10/2024 13:52
1,1,1-Trichloroethane	ND	0.0050	1	06/10/2024 13:52
1,1,2-Trichloroethane	ND	0.0050	1	06/10/2024 13:52
Trichloroethene	ND	0.0050	1	06/10/2024 13:52
Trichlorofluoromethane	ND	0.0050	1	06/10/2024 13:52
1,2,3-Trichloropropane	ND	0.00025	1	06/10/2024 13:52
1,2,4-Trimethylbenzene	ND	0.0050	1	06/10/2024 13:52
1,3,5-Trimethylbenzene	ND	0.0050	1	06/10/2024 13:52
Vinyl Chloride	ND	0.00025	1	06/10/2024 13:52
m,p-Xylene	ND	0.0050	1	06/10/2024 13:52
o-Xylene	ND	0.0050	1	06/10/2024 13:52
Xylenes, Total	ND	0.0050	1	06/10/2024 13:52

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC38 06102409.D	295160

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	100	70-140		06/10/2024 13:52
Toluene-d8	112	70-140		06/10/2024 13:52
4-BFB	119	70-140		06/10/2024 13:52
Benzene-d6	96	50-140		06/10/2024 13:52
Ethylbenzene-d10	110	50-140		06/10/2024 13:52
1,2-DCB-d4	85	40-140		06/10/2024 13:52

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC38 06102411.D	295160

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	1	06/10/2024 15:08
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/10/2024 15:08
Benzene	ND	0.0050	1	06/10/2024 15:08
Bromobenzene	ND	0.0050	1	06/10/2024 15:08
Bromochloromethane	ND	0.0050	1	06/10/2024 15:08
Bromodichloromethane	ND	0.0050	1	06/10/2024 15:08
Bromoform	ND	0.0050	1	06/10/2024 15:08
Bromomethane	ND	0.0050	1	06/10/2024 15:08
2-Butanone (MEK)	ND	0.10	1	06/10/2024 15:08
t-Butyl alcohol (TBA)	ND	0.050	1	06/10/2024 15:08
n-Butyl benzene	ND	0.0050	1	06/10/2024 15:08
sec-Butyl benzene	ND	0.0050	1	06/10/2024 15:08
tert-Butyl benzene	ND	0.0050	1	06/10/2024 15:08
Carbon Disulfide	ND	0.0050	1	06/10/2024 15:08
Carbon Tetrachloride	ND	0.0050	1	06/10/2024 15:08
Chlorobenzene	ND	0.0050	1	06/10/2024 15:08
Chloroethane	ND	0.0050	1	06/10/2024 15:08
Chloroform	ND	0.0050	1	06/10/2024 15:08
Chloromethane	ND	0.0050	1	06/10/2024 15:08
2-Chlorotoluene	ND	0.0050	1	06/10/2024 15:08
4-Chlorotoluene	ND	0.0050	1	06/10/2024 15:08
Dibromochloromethane	ND	0.0050	1	06/10/2024 15:08
1,2-Dibromo-3-chloropropane	ND	0.00050	1	06/10/2024 15:08
1,2-Dibromoethane (EDB)	ND	0.00025	1	06/10/2024 15:08
Dibromomethane	ND	0.0050	1	06/10/2024 15:08
1,2-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:08
1,3-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:08
1,4-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:08
Dichlorodifluoromethane	ND	0.0050	1	06/10/2024 15:08
1,1-Dichloroethane	ND	0.0050	1	06/10/2024 15:08
1,2-Dichloroethane (1,2-DCA)	ND	0.00010	1	06/10/2024 15:08
1,1-Dichloroethene	ND	0.0050	1	06/10/2024 15:08
cis-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 15:08
trans-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 15:08
1,2-Dichloropropane	ND	0.0050	1	06/10/2024 15:08
1,3-Dichloropropane	ND	0.0050	1	06/10/2024 15:08

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC38 06102411.D	295160

Analytes	Result	RL	DF	Date Analyzed
2,2-Dichloropropane	ND	0.0050	1	06/10/2024 15:08
1,1-Dichloropropene	ND	0.0050	1	06/10/2024 15:08
cis-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 15:08
trans-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 15:08
Diisopropyl ether (DIPE)	ND	0.0050	1	06/10/2024 15:08
Ethylbenzene	ND	0.0050	1	06/10/2024 15:08
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/10/2024 15:08
Freon 113	ND	0.0050	1	06/10/2024 15:08
Hexachlorobutadiene	ND	0.0050	1	06/10/2024 15:08
Hexachloroethane	ND	0.0050	1	06/10/2024 15:08
2-Hexanone	ND	0.0050	1	06/10/2024 15:08
Isopropylbenzene	ND	0.0050	1	06/10/2024 15:08
4-Isopropyl toluene	ND	0.0050	1	06/10/2024 15:08
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/10/2024 15:08
Methylene chloride	ND	0.020	1	06/10/2024 15:08
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/10/2024 15:08
Naphthalene	ND	0.0050	1	06/10/2024 15:08
n-Propyl benzene	ND	0.0050	1	06/10/2024 15:08
Styrene	ND	0.0050	1	06/10/2024 15:08
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 15:08
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 15:08
Tetrachloroethene	ND	0.0050	1	06/10/2024 15:08
Toluene	**0.0070**	0.0050	1	06/10/2024 15:08
1,2,3-Trichlorobenzene	ND	0.0050	1	06/10/2024 15:08
1,2,4-Trichlorobenzene	ND	0.0050	1	06/10/2024 15:08
1,1,1-Trichloroethane	ND	0.0050	1	06/10/2024 15:08
1,1,2-Trichloroethane	ND	0.0050	1	06/10/2024 15:08
Trichloroethene	ND	0.0050	1	06/10/2024 15:08
Trichlorofluoromethane	ND	0.0050	1	06/10/2024 15:08
1,2,3-Trichloropropane	ND	0.00025	1	06/10/2024 15:08
1,2,4-Trimethylbenzene	ND	0.0050	1	06/10/2024 15:08
1,3,5-Trimethylbenzene	ND	0.0050	1	06/10/2024 15:08
Vinyl Chloride	ND	0.00025	1	06/10/2024 15:08
m,p-Xylene	ND	0.0050	1	06/10/2024 15:08
o-Xylene	ND	0.0050	1	06/10/2024 15:08
Xylenes, Total	ND	0.0050	1	06/10/2024 15:08

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC38 06102411.D	295160

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	100	70-140		06/10/2024 15:08
Toluene-d8	112	70-140		06/10/2024 15:08
4-BFB	118	70-140		06/10/2024 15:08
Benzene-d6	102	50-140		06/10/2024 15:08
Ethylbenzene-d10	114	50-140		06/10/2024 15:08
1,2-DCB-d4	84	40-140		06/10/2024 15:08

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC38 06102412.D	295160

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	1	06/10/2024 15:45
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/10/2024 15:45
Benzene	ND	0.0050	1	06/10/2024 15:45
Bromobenzene	ND	0.0050	1	06/10/2024 15:45
Bromochloromethane	ND	0.0050	1	06/10/2024 15:45
Bromodichloromethane	ND	0.0050	1	06/10/2024 15:45
Bromoform	ND	0.0050	1	06/10/2024 15:45
Bromomethane	ND	0.0050	1	06/10/2024 15:45
2-Butanone (MEK)	ND	0.10	1	06/10/2024 15:45
t-Butyl alcohol (TBA)	ND	0.050	1	06/10/2024 15:45
n-Butyl benzene	ND	0.0050	1	06/10/2024 15:45
sec-Butyl benzene	ND	0.0050	1	06/10/2024 15:45
tert-Butyl benzene	ND	0.0050	1	06/10/2024 15:45
Carbon Disulfide	ND	0.0050	1	06/10/2024 15:45
Carbon Tetrachloride	ND	0.0050	1	06/10/2024 15:45
Chlorobenzene	ND	0.0050	1	06/10/2024 15:45
Chloroethane	ND	0.0050	1	06/10/2024 15:45
Chloroform	ND	0.0050	1	06/10/2024 15:45
Chloromethane	ND	0.0050	1	06/10/2024 15:45
2-Chlorotoluene	ND	0.0050	1	06/10/2024 15:45
4-Chlorotoluene	ND	0.0050	1	06/10/2024 15:45
Dibromochloromethane	ND	0.0050	1	06/10/2024 15:45
1,2-Dibromo-3-chloropropane	ND	0.00050	1	06/10/2024 15:45
1,2-Dibromoethane (EDB)	ND	0.00025	1	06/10/2024 15:45
Dibromomethane	ND	0.0050	1	06/10/2024 15:45
1,2-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:45
1,3-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:45
1,4-Dichlorobenzene	ND	0.0050	1	06/10/2024 15:45
Dichlorodifluoromethane	ND	0.0050	1	06/10/2024 15:45
1,1-Dichloroethane	ND	0.0050	1	06/10/2024 15:45
1,2-Dichloroethane (1,2-DCA)	ND	0.00010	1	06/10/2024 15:45
1,1-Dichloroethene	ND	0.0050	1	06/10/2024 15:45
cis-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 15:45
trans-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 15:45
1,2-Dichloropropane	ND	0.0050	1	06/10/2024 15:45
1,3-Dichloropropane	ND	0.0050	1	06/10/2024 15:45

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC38 06102412.D	295160

Analytes	Result	RL	DF	Date Analyzed
2,2-Dichloropropane	ND	0.0050	1	06/10/2024 15:45
1,1-Dichloropropene	ND	0.0050	1	06/10/2024 15:45
cis-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 15:45
trans-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 15:45
Diisopropyl ether (DIPE)	ND	0.0050	1	06/10/2024 15:45
Ethylbenzene	ND	0.0050	1	06/10/2024 15:45
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/10/2024 15:45
Freon 113	ND	0.0050	1	06/10/2024 15:45
Hexachlorobutadiene	ND	0.0050	1	06/10/2024 15:45
Hexachloroethane	ND	0.0050	1	06/10/2024 15:45
2-Hexanone	ND	0.0050	1	06/10/2024 15:45
Isopropylbenzene	ND	0.0050	1	06/10/2024 15:45
4-Isopropyl toluene	ND	0.0050	1	06/10/2024 15:45
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/10/2024 15:45
Methylene chloride	ND	0.020	1	06/10/2024 15:45
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/10/2024 15:45
Naphthalene	ND	0.0050	1	06/10/2024 15:45
n-Propyl benzene	ND	0.0050	1	06/10/2024 15:45
Styrene	ND	0.0050	1	06/10/2024 15:45
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 15:45
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 15:45
Tetrachloroethene	ND	0.0050	1	06/10/2024 15:45
Toluene	ND	0.0050	1	06/10/2024 15:45
1,2,3-Trichlorobenzene	ND	0.0050	1	06/10/2024 15:45
1,2,4-Trichlorobenzene	ND	0.0050	1	06/10/2024 15:45
1,1,1-Trichloroethane	ND	0.0050	1	06/10/2024 15:45
1,1,2-Trichloroethane	ND	0.0050	1	06/10/2024 15:45
Trichloroethene	ND	0.0050	1	06/10/2024 15:45
Trichlorofluoromethane	ND	0.0050	1	06/10/2024 15:45
1,2,3-Trichloropropane	ND	0.00025	1	06/10/2024 15:45
1,2,4-Trimethylbenzene	ND	0.0050	1	06/10/2024 15:45
1,3,5-Trimethylbenzene	ND	0.0050	1	06/10/2024 15:45
Vinyl Chloride	ND	0.00025	1	06/10/2024 15:45
m,p-Xylene	ND	0.0050	1	06/10/2024 15:45
o-Xylene	ND	0.0050	1	06/10/2024 15:45
Xylenes, Total	ND	0.0050	1	06/10/2024 15:45

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC38 06102412.D	295160

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	104	70-140		06/10/2024 15:45
Toluene-d8	112	70-140		06/10/2024 15:45
4-BFB	113	70-140		06/10/2024 15:45
Benzene-d6	109	50-140		06/10/2024 15:45
Ethylbenzene-d10	115	50-140		06/10/2024 15:45
1,2-DCB-d4	85	40-140		06/10/2024 15:45

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC38 06102413.D	295160

Analytes	Result	RL	DF	Date Analyzed
Acetone	ND	0.20	1	06/10/2024 16:23
tert-Amyl methyl ether (TAME)	ND	0.0050	1	06/10/2024 16:23
Benzene	ND	0.0050	1	06/10/2024 16:23
Bromobenzene	ND	0.0050	1	06/10/2024 16:23
Bromochloromethane	ND	0.0050	1	06/10/2024 16:23
Bromodichloromethane	ND	0.0050	1	06/10/2024 16:23
Bromoform	ND	0.0050	1	06/10/2024 16:23
Bromomethane	ND	0.0050	1	06/10/2024 16:23
2-Butanone (MEK)	ND	0.10	1	06/10/2024 16:23
t-Butyl alcohol (TBA)	ND	0.050	1	06/10/2024 16:23
n-Butyl benzene	ND	0.0050	1	06/10/2024 16:23
sec-Butyl benzene	ND	0.0050	1	06/10/2024 16:23
tert-Butyl benzene	ND	0.0050	1	06/10/2024 16:23
Carbon Disulfide	ND	0.0050	1	06/10/2024 16:23
Carbon Tetrachloride	ND	0.0050	1	06/10/2024 16:23
Chlorobenzene	ND	0.0050	1	06/10/2024 16:23
Chloroethane	ND	0.0050	1	06/10/2024 16:23
Chloroform	ND	0.0050	1	06/10/2024 16:23
Chloromethane	ND	0.0050	1	06/10/2024 16:23
2-Chlorotoluene	ND	0.0050	1	06/10/2024 16:23
4-Chlorotoluene	ND	0.0050	1	06/10/2024 16:23
Dibromochloromethane	ND	0.0050	1	06/10/2024 16:23
1,2-Dibromo-3-chloropropane	ND	0.00050	1	06/10/2024 16:23
1,2-Dibromoethane (EDB)	ND	0.00025	1	06/10/2024 16:23
Dibromomethane	ND	0.0050	1	06/10/2024 16:23
1,2-Dichlorobenzene	ND	0.0050	1	06/10/2024 16:23
1,3-Dichlorobenzene	ND	0.0050	1	06/10/2024 16:23
1,4-Dichlorobenzene	ND	0.0050	1	06/10/2024 16:23
Dichlorodifluoromethane	ND	0.0050	1	06/10/2024 16:23
1,1-Dichloroethane	ND	0.0050	1	06/10/2024 16:23
1,2-Dichloroethane (1,2-DCA)	ND	0.00010	1	06/10/2024 16:23
1,1-Dichloroethene	ND	0.0050	1	06/10/2024 16:23
cis-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 16:23
trans-1,2-Dichloroethene	ND	0.0050	1	06/10/2024 16:23
1,2-Dichloropropane	ND	0.0050	1	06/10/2024 16:23
1,3-Dichloropropane	ND	0.0050	1	06/10/2024 16:23

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC38 06102413.D	295160

Analytes	Result	RL	DF	Date Analyzed
2,2-Dichloropropane	ND	0.0050	1	06/10/2024 16:23
1,1-Dichloropropene	ND	0.0050	1	06/10/2024 16:23
cis-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 16:23
trans-1,3-Dichloropropene	ND	0.0050	1	06/10/2024 16:23
Diisopropyl ether (DIPE)	ND	0.0050	1	06/10/2024 16:23
Ethylbenzene	ND	0.0050	1	06/10/2024 16:23
Ethyl tert-butyl ether (ETBE)	ND	0.0050	1	06/10/2024 16:23
Freon 113	ND	0.0050	1	06/10/2024 16:23
Hexachlorobutadiene	ND	0.0050	1	06/10/2024 16:23
Hexachloroethane	ND	0.0050	1	06/10/2024 16:23
2-Hexanone	ND	0.0050	1	06/10/2024 16:23
Isopropylbenzene	ND	0.0050	1	06/10/2024 16:23
4-Isopropyl toluene	ND	0.0050	1	06/10/2024 16:23
Methyl-t-butyl ether (MTBE)	ND	0.0050	1	06/10/2024 16:23
Methylene chloride	ND	0.020	1	06/10/2024 16:23
4-Methyl-2-pentanone (MIBK)	ND	0.0050	1	06/10/2024 16:23
Naphthalene	ND	0.0050	1	06/10/2024 16:23
n-Propyl benzene	ND	0.0050	1	06/10/2024 16:23
Styrene	ND	0.0050	1	06/10/2024 16:23
1,1,1,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 16:23
1,1,2,2-Tetrachloroethane	ND	0.0050	1	06/10/2024 16:23
Tetrachloroethene	ND	0.0050	1	06/10/2024 16:23
Toluene	**0.0096**	0.0050	1	06/10/2024 16:23
1,2,3-Trichlorobenzene	ND	0.0050	1	06/10/2024 16:23
1,2,4-Trichlorobenzene	ND	0.0050	1	06/10/2024 16:23
1,1,1-Trichloroethane	ND	0.0050	1	06/10/2024 16:23
1,1,2-Trichloroethane	ND	0.0050	1	06/10/2024 16:23
Trichloroethene	ND	0.0050	1	06/10/2024 16:23
Trichlorofluoromethane	ND	0.0050	1	06/10/2024 16:23
1,2,3-Trichloropropane	ND	0.00025	1	06/10/2024 16:23
1,2,4-Trimethylbenzene	ND	0.0050	1	06/10/2024 16:23
1,3,5-Trimethylbenzene	ND	0.0050	1	06/10/2024 16:23
Vinyl Chloride	ND	0.00025	1	06/10/2024 16:23
m,p-Xylene	ND	0.0050	1	06/10/2024 16:23
o-Xylene	ND	0.0050	1	06/10/2024 16:23
Xylenes, Total	ND	0.0050	1	06/10/2024 16:23

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW5030B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8260D
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/kg

Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	**2406324-004A**	**Soil**	**06/05/2024 14:14**	**GC38 06102413.D**	**295160**

Analytes	Result	RL	DF	Date Analyzed
Surrogates	**REC (%)**	**Limits**		
Dibromofluoromethane	96	70-140		06/10/2024 16:23
Toluene-d8	112	70-140		06/10/2024 16:23
4-BFB	114	70-140		06/10/2024 16:23
Benzene-d6	99	50-140		06/10/2024 16:23
Ethylbenzene-d10	113	50-140		06/10/2024 16:23
1,2-DCB-d4	85	40-140		06/10/2024 16:23

Analyst(s): TW

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC21 06112418.D	295353

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/11/2024 14:28
Acenaphthylene	ND	0.0013	1	06/11/2024 14:28
Acetochlor	ND	0.25	1	06/11/2024 14:28
Anthracene	ND	0.0013	1	06/11/2024 14:28
Benzidine	ND	1.2	1	06/11/2024 14:28
Benzo (a) anthracene	ND	0.012	1	06/11/2024 14:28
Benzo (a) pyrene	ND	0.0013	1	06/11/2024 14:28
Benzo (b) fluoranthene	ND	0.0025	1	06/11/2024 14:28
Benzo (g,h,i) perylene	ND	0.0025	1	06/11/2024 14:28
Benzo (k) fluoranthene	ND	0.0025	1	06/11/2024 14:28
Benzoic Acid	ND	1.2	1	06/11/2024 14:28
Benzyl Alcohol	ND	1.2	1	06/11/2024 14:28
1,1-Biphenyl	ND	0.012	1	06/11/2024 14:28
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/11/2024 14:28
Bis (2-chloroethyl) Ether	ND	0.0013	1	06/11/2024 14:28
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	06/11/2024 14:28
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/11/2024 14:28
Bis (2-ethylhexyl) Phthalate	ND	0.062	1	06/11/2024 14:28
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/11/2024 14:28
Butylbenzyl Phthalate	ND	0.062	1	06/11/2024 14:28
4-Chloroaniline	ND	0.0013	1	06/11/2024 14:28
4-Chloro-3-methylphenol	ND	0.25	1	06/11/2024 14:28
2-Chloronaphthalene	ND	0.25	1	06/11/2024 14:28
2-Chlorophenol	ND	0.012	1	06/11/2024 14:28
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/11/2024 14:28
Chrysene	ND	0.0013	1	06/11/2024 14:28
Dibenzo (a,h) anthracene	ND	0.0025	1	06/11/2024 14:28
Dibenzofuran	ND	0.0013	1	06/11/2024 14:28
Di-n-butyl Phthalate	ND	0.062	1	06/11/2024 14:28
1,2-Dichlorobenzene	ND	0.25	1	06/11/2024 14:28
1,3-Dichlorobenzene	ND	0.25	1	06/11/2024 14:28
1,4-Dichlorobenzene	ND	0.25	1	06/11/2024 14:28
3,3-Dichlorobenzidine	ND	0.0013	1	06/11/2024 14:28
2,4-Dichlorophenol	ND	0.0025	1	06/11/2024 14:28
2,6-Dichlorophenol	ND	0.012	1	06/11/2024 14:28
Diethyl Phthalate	ND	0.012	1	06/11/2024 14:28

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	2406324-001A	Soil	06/05/2024 13:30	GC21 06112418.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4-Dimethylphenol	ND	0.25	1	06/11/2024 14:28
Dimethyl Phthalate	ND	0.0025	1	06/11/2024 14:28
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/11/2024 14:28
2,4-Dinitrophenol	ND	0.25	1	06/11/2024 14:28
2,4-Dinitrotoluene	ND	0.012	1	06/11/2024 14:28
2,6-Dinitrotoluene	ND	0.012	1	06/11/2024 14:28
Di-n-octyl Phthalate	ND	0.62	1	06/11/2024 14:28
1,2-Diphenylhydrazine	ND	0.25	1	06/11/2024 14:28
Fluoranthene	ND	0.0025	1	06/11/2024 14:28
Fluorene	ND	0.0025	1	06/11/2024 14:28
Hexachlorobenzene	ND	0.0013	1	06/11/2024 14:28
Hexachlorobutadiene	ND	0.0013	1	06/11/2024 14:28
Hexachlorocyclopentadiene	ND	1.2	1	06/11/2024 14:28
Hexachloroethane	ND	0.0025	1	06/11/2024 14:28
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	06/11/2024 14:28
Isophorone	ND	0.25	1	06/11/2024 14:28
1-Methylnaphthalene	ND	0.0013	1	06/11/2024 14:28
2-Methylnaphthalene	ND	0.0013	1	06/11/2024 14:28
2-Methylphenol (o-Cresol)	ND	0.25	1	06/11/2024 14:28
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/11/2024 14:28
Naphthalene	ND	0.0025	1	06/11/2024 14:28
2-Nitroaniline	ND	1.2	1	06/11/2024 14:28
3-Nitroaniline	ND	1.2	1	06/11/2024 14:28
4-Nitroaniline	ND	1.2	1	06/11/2024 14:28
Nitrobenzene	ND	0.25	1	06/11/2024 14:28
2-Nitrophenol	ND	1.2	1	06/11/2024 14:28
4-Nitrophenol	ND	1.2	1	06/11/2024 14:28
N-Nitrosodiphenylamine	ND	0.25	1	06/11/2024 14:28
N-Nitrosodi-n-propylamine	ND	0.25	1	06/11/2024 14:28
Pentachlorophenol	ND	0.062	1	06/11/2024 14:28
Phenanthrene	ND	0.0013	1	06/11/2024 14:28
Phenol	ND	0.010	1	06/11/2024 14:28
Pyrene	ND	0.0013	1	06/11/2024 14:28
Pyridine	ND	0.25	1	06/11/2024 14:28
1,2,4-Trichlorobenzene	ND	0.25	1	06/11/2024 14:28
2,4,5-Trichlorophenol	ND	0.0025	1	06/11/2024 14:28

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	**2406324-001A**	**Soil**	**06/05/2024 13:30**	**GC21 06112418.D**	**295353**

Analytes	Result	RL	DF	Date Analyzed
2,4,6-Trichlorophenol	ND	0.0025	1	06/11/2024 14:28
N-Nitrosodimethylamine	ND	1.2	1	06/11/2024 14:28
2,3,4,6-Tetrachlorophenol	ND	0.25	1	06/11/2024 14:28

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	96	60-130	06/11/2024 14:28
Phenol-d5	90	50-130	06/11/2024 14:28
Nitrobenzene-d5	88	60-130	06/11/2024 14:28
2-Fluorobiphenyl	89	60-130	06/11/2024 14:28
2,4,6-Tribromophenol	74	50-130	06/11/2024 14:28
4-Terphenyl-d14	101	50-130	06/11/2024 14:28

Analyst(s): MV

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC21 06112419.D	295353

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/11/2024 14:57
Acenaphthylene	ND	0.0013	1	06/11/2024 14:57
Acetochlor	ND	0.25	1	06/11/2024 14:57
Anthracene	ND	0.0013	1	06/11/2024 14:57
Benzidine	ND	1.2	1	06/11/2024 14:57
Benzo (a) anthracene	ND	0.012	1	06/11/2024 14:57
Benzo (a) pyrene	ND	0.0013	1	06/11/2024 14:57
Benzo (b) fluoranthene	ND	0.0025	1	06/11/2024 14:57
Benzo (g,h,i) perylene	ND	0.0025	1	06/11/2024 14:57
Benzo (k) fluoranthene	ND	0.0025	1	06/11/2024 14:57
Benzoic Acid	ND	1.2	1	06/11/2024 14:57
Benzyl Alcohol	ND	1.2	1	06/11/2024 14:57
1,1-Biphenyl	ND	0.012	1	06/11/2024 14:57
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/11/2024 14:57
Bis (2-chloroethyl) Ether	ND	0.0013	1	06/11/2024 14:57
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	06/11/2024 14:57
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/11/2024 14:57
Bis (2-ethylhexyl) Phthalate	ND	0.062	1	06/11/2024 14:57
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/11/2024 14:57
Butylbenzyl Phthalate	ND	0.062	1	06/11/2024 14:57
4-Chloroaniline	ND	0.0013	1	06/11/2024 14:57
4-Chloro-3-methylphenol	ND	0.25	1	06/11/2024 14:57
2-Chloronaphthalene	ND	0.25	1	06/11/2024 14:57
2-Chlorophenol	ND	0.012	1	06/11/2024 14:57
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/11/2024 14:57
Chrysene	ND	0.0013	1	06/11/2024 14:57
Dibenzo (a,h) anthracene	ND	0.0025	1	06/11/2024 14:57
Dibenzofuran	ND	0.0013	1	06/11/2024 14:57
Di-n-butyl Phthalate	ND	0.062	1	06/11/2024 14:57
1,2-Dichlorobenzene	ND	0.25	1	06/11/2024 14:57
1,3-Dichlorobenzene	ND	0.25	1	06/11/2024 14:57
1,4-Dichlorobenzene	ND	0.25	1	06/11/2024 14:57
3,3-Dichlorobenzidine	ND	0.0013	1	06/11/2024 14:57
2,4-Dichlorophenol	ND	0.0025	1	06/11/2024 14:57
2,6-Dichlorophenol	ND	0.012	1	06/11/2024 14:57
Diethyl Phthalate	ND	0.012	1	06/11/2024 14:57

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC21 06112419.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4-Dimethylphenol	ND	0.25	1	06/11/2024 14:57
Dimethyl Phthalate	ND	0.0025	1	06/11/2024 14:57
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/11/2024 14:57
2,4-Dinitrophenol	ND	0.25	1	06/11/2024 14:57
2,4-Dinitrotoluene	ND	0.012	1	06/11/2024 14:57
2,6-Dinitrotoluene	ND	0.012	1	06/11/2024 14:57
Di-n-octyl Phthalate	ND	0.62	1	06/11/2024 14:57
1,2-Diphenylhydrazine	ND	0.25	1	06/11/2024 14:57
Fluoranthene	ND	0.0025	1	06/11/2024 14:57
Fluorene	ND	0.0025	1	06/11/2024 14:57
Hexachlorobenzene	ND	0.0013	1	06/11/2024 14:57
Hexachlorobutadiene	ND	0.0013	1	06/11/2024 14:57
Hexachlorocyclopentadiene	ND	1.2	1	06/11/2024 14:57
Hexachloroethane	ND	0.0025	1	06/11/2024 14:57
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	06/11/2024 14:57
Isophorone	ND	0.25	1	06/11/2024 14:57
1-Methylnaphthalene	ND	0.0013	1	06/11/2024 14:57
2-Methylnaphthalene	ND	0.0013	1	06/11/2024 14:57
2-Methylphenol (o-Cresol)	ND	0.25	1	06/11/2024 14:57
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/11/2024 14:57
Naphthalene	ND	0.0025	1	06/11/2024 14:57
2-Nitroaniline	ND	1.2	1	06/11/2024 14:57
3-Nitroaniline	ND	1.2	1	06/11/2024 14:57
4-Nitroaniline	ND	1.2	1	06/11/2024 14:57
Nitrobenzene	ND	0.25	1	06/11/2024 14:57
2-Nitrophenol	ND	1.2	1	06/11/2024 14:57
4-Nitrophenol	ND	1.2	1	06/11/2024 14:57
N-Nitrosodiphenylamine	ND	0.25	1	06/11/2024 14:57
N-Nitrosodi-n-propylamine	ND	0.25	1	06/11/2024 14:57
Pentachlorophenol	ND	0.062	1	06/11/2024 14:57
Phenanthrene	ND	0.0013	1	06/11/2024 14:57
Phenol	ND	0.010	1	06/11/2024 14:57
Pyrene	ND	0.0013	1	06/11/2024 14:57
Pyridine	ND	0.25	1	06/11/2024 14:57
1,2,4-Trichlorobenzene	ND	0.25	1	06/11/2024 14:57
2,4,5-Trichlorophenol	ND	0.0025	1	06/11/2024 14:57

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	2406324-002A	Soil	06/05/2024 13:45	GC21 06112419.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4,6-Trichlorophenol	ND	0.0025	1	06/11/2024 14:57
N-Nitrosodimethylamine	ND	1.2	1	06/11/2024 14:57
2,3,4,6-Tetrachlorophenol	ND	0.25	1	06/11/2024 14:57

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	97	60-130	06/11/2024 14:57
Phenol-d5	96	50-130	06/11/2024 14:57
Nitrobenzene-d5	90	60-130	06/11/2024 14:57
2-Fluorobiphenyl	93	60-130	06/11/2024 14:57
2,4,6-Tribromophenol	63	50-130	06/11/2024 14:57
4-Terphenyl-d14	98	50-130	06/11/2024 14:57

Analyst(s): MV

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC21 06112420.D	295353

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/11/2024 15:26
Acenaphthylene	ND	0.0013	1	06/11/2024 15:26
Acetochlor	ND	0.25	1	06/11/2024 15:26
Anthracene	ND	0.0013	1	06/11/2024 15:26
Benzidine	ND	1.2	1	06/11/2024 15:26
Benzo (a) anthracene	ND	0.012	1	06/11/2024 15:26
Benzo (a) pyrene	ND	0.0013	1	06/11/2024 15:26
Benzo (b) fluoranthene	ND	0.0025	1	06/11/2024 15:26
Benzo (g,h,i) perylene	ND	0.0025	1	06/11/2024 15:26
Benzo (k) fluoranthene	ND	0.0025	1	06/11/2024 15:26
Benzoic Acid	ND	1.2	1	06/11/2024 15:26
Benzyl Alcohol	ND	1.2	1	06/11/2024 15:26
1,1-Biphenyl	ND	0.012	1	06/11/2024 15:26
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/11/2024 15:26
Bis (2-chloroethyl) Ether	ND	0.0013	1	06/11/2024 15:26
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	06/11/2024 15:26
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/11/2024 15:26
Bis (2-ethylhexyl) Phthalate	ND	0.062	1	06/11/2024 15:26
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/11/2024 15:26
Butylbenzyl Phthalate	ND	0.062	1	06/11/2024 15:26
4-Chloroaniline	ND	0.0013	1	06/11/2024 15:26
4-Chloro-3-methylphenol	ND	0.25	1	06/11/2024 15:26
2-Chloronaphthalene	ND	0.25	1	06/11/2024 15:26
2-Chlorophenol	ND	0.012	1	06/11/2024 15:26
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/11/2024 15:26
Chrysene	ND	0.0013	1	06/11/2024 15:26
Dibenzo (a,h) anthracene	ND	0.0025	1	06/11/2024 15:26
Dibenzofuran	ND	0.0013	1	06/11/2024 15:26
Di-n-butyl Phthalate	ND	0.062	1	06/11/2024 15:26
1,2-Dichlorobenzene	ND	0.25	1	06/11/2024 15:26
1,3-Dichlorobenzene	ND	0.25	1	06/11/2024 15:26
1,4-Dichlorobenzene	ND	0.25	1	06/11/2024 15:26
3,3-Dichlorobenzidine	ND	0.0013	1	06/11/2024 15:26
2,4-Dichlorophenol	ND	0.0025	1	06/11/2024 15:26
2,6-Dichlorophenol	ND	0.012	1	06/11/2024 15:26
Diethyl Phthalate	ND	0.012	1	06/11/2024 15:26

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC21 06112420.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4-Dimethylphenol	ND	0.25	1	06/11/2024 15:26
Dimethyl Phthalate	ND	0.0025	1	06/11/2024 15:26
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/11/2024 15:26
2,4-Dinitrophenol	ND	0.25	1	06/11/2024 15:26
2,4-Dinitrotoluene	ND	0.012	1	06/11/2024 15:26
2,6-Dinitrotoluene	ND	0.012	1	06/11/2024 15:26
Di-n-octyl Phthalate	ND	0.62	1	06/11/2024 15:26
1,2-Diphenylhydrazine	ND	0.25	1	06/11/2024 15:26
Fluoranthene	ND	0.0025	1	06/11/2024 15:26
Fluorene	ND	0.0025	1	06/11/2024 15:26
Hexachlorobenzene	ND	0.0013	1	06/11/2024 15:26
Hexachlorobutadiene	ND	0.0013	1	06/11/2024 15:26
Hexachlorocyclopentadiene	ND	1.2	1	06/11/2024 15:26
Hexachloroethane	ND	0.0025	1	06/11/2024 15:26
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	06/11/2024 15:26
Isophorone	ND	0.25	1	06/11/2024 15:26
1-Methylnaphthalene	ND	0.0013	1	06/11/2024 15:26
2-Methylnaphthalene	ND	0.0013	1	06/11/2024 15:26
2-Methylphenol (o-Cresol)	ND	0.25	1	06/11/2024 15:26
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/11/2024 15:26
Naphthalene	ND	0.0025	1	06/11/2024 15:26
2-Nitroaniline	ND	1.2	1	06/11/2024 15:26
3-Nitroaniline	ND	1.2	1	06/11/2024 15:26
4-Nitroaniline	ND	1.2	1	06/11/2024 15:26
Nitrobenzene	ND	0.25	1	06/11/2024 15:26
2-Nitrophenol	ND	1.2	1	06/11/2024 15:26
4-Nitrophenol	ND	1.2	1	06/11/2024 15:26
N-Nitrosodiphenylamine	ND	0.25	1	06/11/2024 15:26
N-Nitrosodi-n-propylamine	ND	0.25	1	06/11/2024 15:26
Pentachlorophenol	ND	0.062	1	06/11/2024 15:26
Phenanthrene	ND	0.0013	1	06/11/2024 15:26
Phenol	ND	0.010	1	06/11/2024 15:26
Pyrene	ND	0.0013	1	06/11/2024 15:26
Pyridine	ND	0.25	1	06/11/2024 15:26
1,2,4-Trichlorobenzene	ND	0.25	1	06/11/2024 15:26
2,4,5-Trichlorophenol	ND	0.0025	1	06/11/2024 15:26

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	2406324-003A	Soil	06/05/2024 14:02	GC21 06112420.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4,6-Trichlorophenol	ND	0.0025	1	06/11/2024 15:26
N-Nitrosodimethylamine	ND	1.2	1	06/11/2024 15:26
2,3,4,6-Tetrachlorophenol	ND	0.25	1	06/11/2024 15:26

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	110	60-130	06/11/2024 15:26
Phenol-d5	105	50-130	06/11/2024 15:26
Nitrobenzene-d5	95	60-130	06/11/2024 15:26
2-Fluorobiphenyl	101	60-130	06/11/2024 15:26
2,4,6-Tribromophenol	70	50-130	06/11/2024 15:26
4-Terphenyl-d14	110	50-130	06/11/2024 15:26

Analyst(s): MV

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC21 06112421.D	295353

Analytes	Result	RL	DF	Date Analyzed
Acenaphthene	ND	0.0013	1	06/11/2024 15:55
Acenaphthylene	ND	0.0013	1	06/11/2024 15:55
Acetochlor	ND	0.25	1	06/11/2024 15:55
Anthracene	ND	0.0013	1	06/11/2024 15:55
Benzidine	ND	1.2	1	06/11/2024 15:55
Benzo (a) anthracene	ND	0.012	1	06/11/2024 15:55
Benzo (a) pyrene	ND	0.0013	1	06/11/2024 15:55
Benzo (b) fluoranthene	ND	0.0025	1	06/11/2024 15:55
Benzo (g,h,i) perylene	ND	0.0025	1	06/11/2024 15:55
Benzo (k) fluoranthene	ND	0.0025	1	06/11/2024 15:55
Benzoic Acid	ND	1.2	1	06/11/2024 15:55
Benzyl Alcohol	ND	1.2	1	06/11/2024 15:55
1,1-Biphenyl	ND	0.012	1	06/11/2024 15:55
Bis (2-chloroethoxy) Methane	ND	0.25	1	06/11/2024 15:55
Bis (2-chloroethyl) Ether	ND	0.0013	1	06/11/2024 15:55
Bis (2-chloroisopropyl) Ether	ND	0.0025	1	06/11/2024 15:55
Bis (2-ethylhexyl) Adipate	ND	0.25	1	06/11/2024 15:55
Bis (2-ethylhexyl) Phthalate	ND	0.062	1	06/11/2024 15:55
4-Bromophenyl Phenyl Ether	ND	0.25	1	06/11/2024 15:55
Butylbenzyl Phthalate	ND	0.062	1	06/11/2024 15:55
4-Chloroaniline	ND	0.0013	1	06/11/2024 15:55
4-Chloro-3-methylphenol	ND	0.25	1	06/11/2024 15:55
2-Chloronaphthalene	ND	0.25	1	06/11/2024 15:55
2-Chlorophenol	ND	0.012	1	06/11/2024 15:55
4-Chlorophenyl Phenyl Ether	ND	0.25	1	06/11/2024 15:55
Chrysene	ND	0.0013	1	06/11/2024 15:55
Dibenzo (a,h) anthracene	ND	0.0025	1	06/11/2024 15:55
Dibenzofuran	ND	0.0013	1	06/11/2024 15:55
Di-n-butyl Phthalate	ND	0.062	1	06/11/2024 15:55
1,2-Dichlorobenzene	ND	0.25	1	06/11/2024 15:55
1,3-Dichlorobenzene	ND	0.25	1	06/11/2024 15:55
1,4-Dichlorobenzene	ND	0.25	1	06/11/2024 15:55
3,3-Dichlorobenzidine	ND	0.0013	1	06/11/2024 15:55
2,4-Dichlorophenol	ND	0.0025	1	06/11/2024 15:55
2,6-Dichlorophenol	ND	0.012	1	06/11/2024 15:55
Diethyl Phthalate	ND	0.012	1	06/11/2024 15:55

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC21 06112421.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4-Dimethylphenol	ND	0.25	1	06/11/2024 15:55
Dimethyl Phthalate	ND	0.0025	1	06/11/2024 15:55
4,6-Dinitro-2-methylphenol	ND	1.2	1	06/11/2024 15:55
2,4-Dinitrophenol	ND	0.25	1	06/11/2024 15:55
2,4-Dinitrotoluene	ND	0.012	1	06/11/2024 15:55
2,6-Dinitrotoluene	ND	0.012	1	06/11/2024 15:55
Di-n-octyl Phthalate	ND	0.62	1	06/11/2024 15:55
1,2-Diphenylhydrazine	ND	0.25	1	06/11/2024 15:55
Fluoranthene	ND	0.0025	1	06/11/2024 15:55
Fluorene	ND	0.0025	1	06/11/2024 15:55
Hexachlorobenzene	ND	0.0013	1	06/11/2024 15:55
Hexachlorobutadiene	ND	0.0013	1	06/11/2024 15:55
Hexachlorocyclopentadiene	ND	1.2	1	06/11/2024 15:55
Hexachloroethane	ND	0.0025	1	06/11/2024 15:55
Indeno (1,2,3-cd) pyrene	ND	0.0025	1	06/11/2024 15:55
Isophorone	ND	0.25	1	06/11/2024 15:55
1-Methylnaphthalene	ND	0.0013	1	06/11/2024 15:55
2-Methylnaphthalene	ND	0.0013	1	06/11/2024 15:55
2-Methylphenol (o-Cresol)	ND	0.25	1	06/11/2024 15:55
3 & 4-Methylphenol (m,p-Cresol)	ND	0.25	1	06/11/2024 15:55
Naphthalene	ND	0.0025	1	06/11/2024 15:55
2-Nitroaniline	ND	1.2	1	06/11/2024 15:55
3-Nitroaniline	ND	1.2	1	06/11/2024 15:55
4-Nitroaniline	ND	1.2	1	06/11/2024 15:55
Nitrobenzene	ND	0.25	1	06/11/2024 15:55
2-Nitrophenol	ND	1.2	1	06/11/2024 15:55
4-Nitrophenol	ND	1.2	1	06/11/2024 15:55
N-Nitrosodiphenylamine	ND	0.25	1	06/11/2024 15:55
N-Nitrosodi-n-propylamine	ND	0.25	1	06/11/2024 15:55
Pentachlorophenol	ND	0.062	1	06/11/2024 15:55
Phenanthrene	ND	0.0013	1	06/11/2024 15:55
Phenol	ND	0.010	1	06/11/2024 15:55
Pyrene	ND	0.0013	1	06/11/2024 15:55
Pyridine	ND	0.25	1	06/11/2024 15:55
1,2,4-Trichlorobenzene	ND	0.25	1	06/11/2024 15:55
2,4,5-Trichlorophenol	ND	0.0025	1	06/11/2024 15:55

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/10/2024	**Analytical Method:**	SW8270E
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Semi-Volatile Organics

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	2406324-004A	Soil	06/05/2024 14:14	GC21 06112421.D	295353

Analytes	Result	RL	DF	Date Analyzed
2,4,6-Trichlorophenol	ND	0.0025	1	06/11/2024 15:55
N-Nitrosodimethylamine	ND	1.2	1	06/11/2024 15:55
2,3,4,6-Tetrachlorophenol	ND	0.25	1	06/11/2024 15:55

Surrogates	REC (%)	Limits	Date Analyzed
2-Fluorophenol	104	60-130	06/11/2024 15:55
Phenol-d5	97	50-130	06/11/2024 15:55
Nitrobenzene-d5	87	60-130	06/11/2024 15:55
2-Fluorobiphenyl	93	60-130	06/11/2024 15:55
2,4,6-Tribromophenol	60	50-130	06/11/2024 15:55
4-Terphenyl-d14	99	50-130	06/11/2024 15:55

Analyst(s): MV

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3050B
Date Prepared:	06/14/2024	**Analytical Method:**	SW6020
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg-dry

CAM / CCR 17 Metals

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1,2,3,4	**2406324-005A**	**Soil**	**06/06/2024 14:14**	**ICP-MS4 107SMPL.d**	**295785**

Analytes	Result	RL	DF	Date Analyzed
Antimony	ND	0.56	1	06/17/2024 10:36
Arsenic	**2.9**	0.56	1	06/17/2024 10:36
Barium	**1700**	5.6	1	06/17/2024 10:36
Beryllium	**0.80**	0.56	1	06/17/2024 10:36
Cadmium	ND	0.56	1	06/17/2024 10:36
Chromium	**77**	0.56	1	06/17/2024 10:36
Cobalt	**13**	0.56	1	06/17/2024 10:36
Copper	**200**	0.56	1	06/17/2024 10:36
Lead	**9.2**	0.56	1	06/17/2024 10:36
Mercury	**0.17**	0.056	1	06/17/2024 10:36
Molybdenum	ND	0.56	1	06/17/2024 10:36
Nickel	**120**	0.56	1	06/17/2024 10:36
Selenium	**0.65**	0.56	1	06/17/2024 10:36
Silver	ND	0.56	1	06/17/2024 10:36
Thallium	ND	0.56	1	06/17/2024 10:36
Vanadium	**72**	0.56	1	06/17/2024 10:36
Zinc	**72**	5.6	1	06/17/2024 10:36

Surrogates	REC (%)	Limits	
Terbium	103	70-130	06/17/2024 10:36

Analyst(s): DB

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	ASTM D2216
Date Prepared:	06/14/2024	**Analytical Method:**	SW8000
Project:	16484.001.001; Scotts Valley Development	**Unit:**	wet wt%

Percent Moisture

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1,2,3,4	**2406324-005A**	**Soil**	**06/06/2024 14:14**	**WetChem**	**295779**

Analytes	Result	RL	Date Analyzed
% Moisture	**10.7**	0.100	06/14/2024 13:50

Analyst(s): JME

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8015B
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1	**2406324-001A**	**Soil**	**06/05/2024 13:30**	**GC11B 06092415.D**	**295173**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	2.0	1	06/09/2024 16:40
TPH-Motor Oil (C18-C36)	ND	10	1	06/09/2024 16:40

Surrogates	REC (%)	Limits	
C9	90	70-130	06/09/2024 16:40

Analyst(s): JNG

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S2	**2406324-002A**	**Soil**	**06/05/2024 13:45**	**GC11B 06092417.D**	**295173**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	2.0	1	06/09/2024 17:18
TPH-Motor Oil (C18-C36)	**11**	10	1	06/09/2024 17:18

Surrogates	REC (%)	Limits	
C9	87	70-130	06/09/2024 17:18

Analyst(s): JNG Analytical Comments: e7

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S3	**2406324-003A**	**Soil**	**06/05/2024 14:02**	**GC11B 06092409.D**	**295173**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	2.0	1	06/09/2024 14:45
TPH-Motor Oil (C18-C36)	ND	10	1	06/09/2024 14:45

Surrogates	REC (%)	Limits	
C9	105	70-130	06/09/2024 14:45

Analyst(s): JNG

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	SW3550B
Date Prepared:	06/06/2024	**Analytical Method:**	SW8015B
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/Kg

Total Extractable Petroleum Hydrocarbons w/out SG Clean-Up

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S4	**2406324-004A**	**Soil**	**06/05/2024 14:14**	**GC11B 06092411.D**	**295173**

Analytes	Result	RL	DF	Date Analyzed
TPH-Diesel (C10-C23)	ND	2.0	1	06/09/2024 15:23
TPH-Motor Oil (C18-C36)	ND	10	1	06/09/2024 15:23

Surrogates	REC (%)	Limits	
C9	92	70-130	06/09/2024 15:23

Analyst(s): JNG

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/06/2024	**BatchID:**	295213
Date Analyzed:	06/06/2024 - 06/08/2024	**Extraction Method:**	SW3550B
Instrument:	GC20, GC23	**Analytical Method:**	SW8081B/8082A
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295213 2406324-001AMS/MSD

QC Summary Report for SW8081B/8082A

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Aldrin	ND	0.00042	0.0010	-	-	-
a-BHC	ND	0.00045	0.0010	-	-	-
b-BHC	ND	0.00038	0.0010	-	-	-
d-BHC	ND	0.00036	0.0010	-	-	-
g-BHC	ND	0.00036	0.0010	-	-	-
Chlordane (Technical)	ND	0.010	0.025	-	-	-
a-Chlordane	ND	0.00035	0.0010	-	-	-
g-Chlordane	ND	0.00067	0.0010	-	-	-
p,p-DDD	ND	0.00057	0.0010	-	-	-
p,p-DDE	ND	0.00034	0.0010	-	-	-
p,p-DDT	ND	0.00043	0.0010	-	-	-
Dieldrin	ND	0.00041	0.0010	-	-	-
Endosulfan I	ND	0.00040	0.0010	-	-	-
Endosulfan II	ND	0.00051	0.0010	-	-	-
Endosulfan sulfate	ND	0.00040	0.0010	-	-	-
Endrin	ND	0.00045	0.0010	-	-	-
Endrin aldehyde	ND	0.00045	0.0010	-	-	-
Endrin ketone	ND	0.00042	0.0010	-	-	-
Heptachlor	ND	0.00067	0.0010	-	-	-
Heptachlor epoxide	ND	0.00041	0.0010	-	-	-
Hexachlorobenzene	ND	0.00038	0.010	-	-	-
Hexachlorocyclopentadiene	ND	0.00064	0.020	-	-	-
Methoxychlor	ND	0.00063	0.0010	-	-	-
Toxaphene	ND	0.064	0.20	-	-	-
Aroclor1016	ND	0.037	0.050	-	-	-
Aroclor1221	ND	0.037	0.050	-	-	-
Aroclor1232	ND	0.037	0.050	-	-	-
Aroclor1242	ND	0.037	0.050	-	-	-
Aroclor1248	ND	0.037	0.050	-	-	-
Aroclor1254	ND	0.037	0.050	-	-	-
Aroclor1260	ND	0.037	0.050	-	-	-
Surrogate Recovery						
Decachlorobiphenyl	0.049			0.05	97	70-130

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/06/2024	**BatchID:**	295213
Date Analyzed:	06/06/2024 - 06/08/2024	**Extraction Method:**	SW3550B
Instrument:	GC20, GC23	**Analytical Method:**	SW8081B/8082A
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295213 2406324-001AMS/MSD

QC Summary Report for SW8081B/8082A

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Aldrin	0.047	0.048	0.050	95	95	70-130	0.800	20
a-BHC	0.046	0.047	0.050	92	93	70-130	1.20	20
b-BHC	0.045	0.045	0.050	89	89	70-130	0.403	20
d-BHC	0.034	0.034	0.050	68,F2	68,F2	70-130	0.551	20
g-BHC	0.046	0.046	0.050	92	92	70-130	0.358	20
a-Chlordane	0.047	0.047	0.050	94	94	70-130	0.0139	20
g-Chlordane	0.047	0.047	0.050	94	94	70-130	0.129	20
p,p-DDD	0.045	0.045	0.050	90	91	70-130	0.565	20
p,p-DDE	0.049	0.049	0.050	99	98	70-130	0.272	20
p,p-DDT	0.051	0.049	0.050	101	99	70-130	2.38	20
Dieldrin	0.048	0.048	0.050	95	95	70-130	0.145	20
Endosulfan I	0.046	0.046	0.050	93	93	70-130	0.0716	20
Endosulfan II	0.046	0.046	0.050	92	91	70-130	0.197	20
Endosulfan sulfate	0.042	0.042	0.050	83	83	70-130	0.300	20
Endrin	0.050	0.049	0.050	100	98	70-130	1.19	20
Endrin aldehyde	0.047	0.047	0.050	94	94	70-130	0.229	20
Endrin ketone	0.049	0.049	0.050	99	98	70-130	0.768	20
Heptachlor	0.049	0.048	0.050	97	97	70-130	0.770	20
Heptachlor epoxide	0.046	0.046	0.050	92	92	70-130	0.281	20
Hexachlorobenzene	0.043	0.043	0.050	86	86	70-130	0.267	20
Hexachlorocyclopentadiene	0.045	0.044	0.050	90	88	50-130	2.07	20
Methoxychlor	0.051	0.050	0.050	102	100	70-130	1.82	20
Surrogate Recovery								
Decachlorobiphenyl	0.050	0.050	0.050	99	100	70-130	0.616	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Aldrin	1	0.045	0.045	0.050	ND	89	90	60-130	0.542	20
a-BHC	1	0.051	0.050	0.050	ND	101	100	60-130	0.684	20
b-BHC	1	0.046	0.045	0.050	ND	91	91	60-130	0.502	20
d-BHC	1	0.035	0.035	0.050	ND	70	71	60-130	0.630	20
g-BHC	1	0.053	0.053	0.050	ND	107	107	60-130	0.0677	20
a-Chlordane	1	0.044	0.045	0.050	ND	87	89	60-130	2.07	20
g-Chlordane	1	0.051	0.052	0.050	ND	101	103	60-130	2.06	20
p,p-DDD	1	0.049	0.052	0.050	ND	99	103	60-130	4.41	20
p,p-DDE	1	0.045	0.046	0.050	ND	90	93	60-130	3.04	20

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/06/2024	**BatchID:**	295213
Date Analyzed:	06/06/2024 - 06/08/2024	**Extraction Method:**	SW3550B
Instrument:	GC20, GC23	**Analytical Method:**	SW8081B/8082A
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295213 2406324-001AMS/MSD

QC Summary Report for SW8081B/8082A

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
p,p-DDT	1	0.057	0.059	0.050	ND	114	117	60-130	2.90	20
Dieldrin	1	0.047	0.048	0.050	ND	94	97	60-130	2.53	20
Endosulfan I	1	0.046	0.047	0.050	ND	91	93	60-130	2.34	20
Endosulfan II	1	0.047	0.048	0.050	ND	94	96	60-130	2.24	20
Endosulfan sulfate	1	0.053	0.054	0.050	ND	106	108	60-130	2.45	20
Endrin	1	0.061	0.063	0.050	ND	122	126	60-130	2.97	20
Endrin aldehyde	1	0.047	0.048	0.050	ND	94	96	60-130	2.25	20
Endrin ketone	1	0.055	0.056	0.050	ND	111	112	60-130	1.44	20
Heptachlor	1	0.061	0.062	0.050	ND	123	124	60-130	1.46	20
Heptachlor epoxide	1	0.047	0.048	0.050	ND	95	96	60-130	0.973	20
Hexachlorobenzene	1	0.046	0.046	0.050	ND	93	92	60-130	0.771	20
Hexachlorocyclopentadiene	1	0.072	0.068	0.050	ND	144,F1	136,F1	50-130	5.78	20
Methoxychlor	1	0.056	0.058	0.050	ND	112	115	60-130	2.34	20
Surrogate Recovery										
Decachlorobiphenyl	1	0.048	0.050	0.050		96	100	60-130	4.61	20

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/10/2024 - 06/12/2024	**Extraction Method:**	SW5030B
Instrument:	GC38	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH(g)	ND	0.25	0.25	-	-	-
Surrogate Recovery						
Dibromofluoromethane	0.11			0.125	90	70-140
Benzene-D6	0.086			0.1	86	70-140

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH(g)	0.99	1.0	1	99	104	70-130	4.94	20
Surrogate Recovery								
Dibromofluoromethane	0.12	0.12	0.12	94	93	70-140	1.09	20
Benzene-D6	0.087	0.091	0.10	87	91	70-140	4.66	20

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acetone	ND	0.12	0.20	-	-	-
tert-Amyl methyl ether (TAME)	ND	0.0012	0.0050	-	-	-
Benzene	ND	0.00095	0.0050	-	-	-
Bromobenzene	ND	0.0012	0.0050	-	-	-
Bromochloromethane	ND	0.0011	0.0050	-	-	-
Bromodichloromethane	ND	0.00023	0.0050	-	-	-
Bromoform	ND	0.0038	0.0050	-	-	-
Bromomethane	ND	0.0018	0.0050	-	-	-
2-Butanone (MEK)	ND	0.040	0.10	-	-	-
t-Butyl alcohol (TBA)	ND	0.024	0.050	-	-	-
n-Butyl benzene	ND	0.0016	0.0050	-	-	-
sec-Butyl benzene	ND	0.0018	0.0050	-	-	-
tert-Butyl benzene	ND	0.0021	0.0050	-	-	-
Carbon Disulfide	ND	0.0011	0.0050	-	-	-
Carbon Tetrachloride	ND	0.00017	0.0050	-	-	-
Chlorobenzene	ND	0.0012	0.0050	-	-	-
Chloroethane	ND	0.0017	0.0050	-	-	-
Chloroform	ND	0.00032	0.0050	-	-	-
Chloromethane	ND	0.0017	0.0050	-	-	-
2-Chlorotoluene	ND	0.0016	0.0050	-	-	-
4-Chlorotoluene	ND	0.0013	0.0050	-	-	-
Dibromochloromethane	ND	0.00040	0.0050	-	-	-
1,2-Dibromo-3-chloropropane	ND	0.00048	0.00050	-	-	-
1,2-Dibromoethane (EDB)	ND	0.00013	0.00025	-	-	-
Dibromomethane	ND	0.0012	0.0050	-	-	-
1,2-Dichlorobenzene	ND	0.0017	0.0050	-	-	-
1,3-Dichlorobenzene	ND	0.0015	0.0050	-	-	-
1,4-Dichlorobenzene	ND	0.0015	0.0050	-	-	-
Dichlorodifluoromethane	ND	0.00063	0.0050	-	-	-
1,1-Dichloroethane	ND	0.0015	0.0050	-	-	-
1,2-Dichloroethane (1,2-DCA)	ND	0.000070	0.00010	-	-	-
1,1-Dichloroethene	ND	0.00011	0.0050	-	-	-
cis-1,2-Dichloroethene	ND	0.0012	0.0050	-	-	-
trans-1,2-Dichloroethene	ND	0.0012	0.0050	-	-	-
1,2-Dichloropropane	ND	0.0013	0.0050	-	-	-
1,3-Dichloropropane	ND	0.00088	0.0050	-	-	-
2,2-Dichloropropane	ND	0.0019	0.0050	-	-	-
1,1-Dichloropropene	ND	0.0018	0.0050	-	-	-

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
cis-1,3-Dichloropropene	ND	0.00098	0.0050	-	-	-
trans-1,3-Dichloropropene	ND	0.00097	0.0050	-	-	-
Diisopropyl ether (DIPE)	ND	0.0018	0.0050	-	-	-
Ethylbenzene	ND	0.0011	0.0050	-	-	-
Ethyl tert-butyl ether (ETBE)	ND	0.0014	0.0050	-	-	-
Freon 113	ND	0.0011	0.0050	-	-	-
Hexachlorobutadiene	ND	0.0012	0.0050	-	-	-
Hexachloroethane	ND	0.00064	0.0050	-	-	-
2-Hexanone	ND	0.0027	0.0050	-	-	-
Isopropylbenzene	ND	0.0018	0.0050	-	-	-
4-Isopropyl toluene	ND	0.0019	0.0050	-	-	-
Methyl-t-butyl ether (MTBE)	ND	0.0015	0.0050	-	-	-
Methylene chloride	ND	0.012	0.020	-	-	-
4-Methyl-2-pentanone (MIBK)	ND	0.0017	0.0050	-	-	-
Naphthalene	ND	0.0030	0.0050	-	-	-
n-Propyl benzene	ND	0.0019	0.0050	-	-	-
Styrene	ND	0.0014	0.0050	-	-	-
1,1,1,2-Tetrachloroethane	ND	0.0013	0.0050	-	-	-
1,1,2,2-Tetrachloroethane	ND	0.00044	0.0050	-	-	-
Tetrachloroethene	ND	0.00029	0.0050	-	-	-
Toluene	ND	0.0016	0.0050	-	-	-
1,2,3-Trichlorobenzene	ND	0.0021	0.0050	-	-	-
1,2,4-Trichlorobenzene	ND	0.0016	0.0050	-	-	-
1,1,1-Trichloroethane	ND	0.0016	0.0050	-	-	-
1,1,2-Trichloroethane	ND	0.0012	0.0050	-	-	-
Trichloroethene	ND	0.0014	0.0050	-	-	-
Trichlorofluoromethane	ND	0.0013	0.0050	-	-	-
1,2,3-Trichloropropane	ND	0.00017	0.00025	-	-	-
1,2,4-Trimethylbenzene	ND	0.0016	0.0050	-	-	-
1,3,5-Trimethylbenzene	ND	0.0017	0.0050	-	-	-
Vinyl Chloride	ND	0.00012	0.00025	-	-	-
m,p-Xylene	ND	0.0026	0.0050	-	-	-
o-Xylene	ND	0.0014	0.0050	-	-	-

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
Dibromofluoromethane	0.12			0.125	95	70-140
Toluene-d8	0.14			0.125	110	70-140
4-BFB	0.013			0.0125	107	70-140
Benzene-d6	0.093			0.1	93	70-140
Ethylbenzene-d10	0.10			0.1	105	70-140
1,2-DCB-d4	0.071			0.1	71	70-140

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acetone	0.18	0.19	0.20	88	93	60-140	5.23	30
tert-Amyl methyl ether (TAME)	0.013	0.014	0.020	66	70	50-140	6.35	30
Benzene	0.016	0.017	0.020	82	87	60-140	6.48	30
Bromobenzene	0.018	0.020	0.020	92	98	60-140	6.21	30
Bromochloromethane	0.016	0.017	0.020	78	83	60-140	7.05	30
Bromodichloromethane	0.017	0.019	0.020	87	93	60-140	6.84	30
Bromoform	0.011	0.012	0.020	57	61	40-140	5.96	30
Bromomethane	0.018	0.018	0.020	88	92	30-140	4.88	30
2-Butanone (MEK)	0.068	0.065	0.080	85	81	50-140	4.49	30
t-Butyl alcohol (TBA)	0.060	0.062	0.080	75	78	50-140	4.07	30
n-Butyl benzene	0.024	0.025	0.020	122	127	60-150	3.64	30
sec-Butyl benzene	0.025	0.026	0.020	123	130	60-150	5.68	30
tert-Butyl benzene	0.022	0.023	0.020	111	116	60-140	4.46	30
Carbon Disulfide	0.017	0.019	0.020	85	93	50-140	8.65	30
Carbon Tetrachloride	0.019	0.020	0.020	93	100	60-140	7.80	30
Chlorobenzene	0.017	0.018	0.020	86	91	60-140	4.64	30
Chloroethane	0.017	0.018	0.020	84	92	50-140	9.04	30
Chloroform	0.018	0.019	0.020	89	95	60-140	6.31	30
Chloromethane	0.011	0.012	0.020	56	60	20-140	6.65	30
2-Chlorotoluene	0.021	0.022	0.020	103	110	60-140	6.59	30
4-Chlorotoluene	0.021	0.022	0.020	104	109	60-140	4.74	30
Dibromochloromethane	0.015	0.016	0.020	76	81	50-140	6.13	30
1,2-Dibromo-3-chloropropane	0.0080	0.0081	0.010	80	81	30-140	1.16	30
1,2-Dibromoethane (EDB)	0.010	0.010	0.010	100	105	40-140	4.71	30
Dibromomethane	0.015	0.017	0.020	77	83	60-140	7.23	30
1,2-Dichlorobenzene	0.016	0.016	0.020	80	81	60-140	1.06	30
1,3-Dichlorobenzene	0.019	0.020	0.020	96	102	60-140	5.62	30
1,4-Dichlorobenzene	0.018	0.019	0.020	91	97	60-140	6.19	30
Dichlorodifluoromethane	0.0041	0.0043	0.020	21	21	10-140	3.89	30
1,1-Dichloroethane	0.018	0.019	0.020	90	95	60-140	5.74	30
1,2-Dichloroethane (1,2-DCA)	0.018	0.019	0.020	89	94	60-140	6.43	30
1,1-Dichloroethene	0.018	0.020	0.020	91	98	60-140	7.34	30
cis-1,2-Dichloroethene	0.018	0.019	0.020	88	95	60-140	7.67	30
trans-1,2-Dichloroethene	0.018	0.020	0.020	90	98	60-140	8.35	30
1,2-Dichloropropane	0.017	0.018	0.020	83	89	60-140	6.50	30
1,3-Dichloropropane	0.016	0.017	0.020	80	84	60-140	5.39	30
2,2-Dichloropropane	0.021	0.023	0.020	105	114	60-140	8.00	30
1,1-Dichloropropene	0.018	0.020	0.020	92	99	60-140	7.54	30

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
cis-1,3-Dichloropropene	0.018	0.019	0.020	91	97	60-140	5.82	30
trans-1,3-Dichloropropene	0.018	0.019	0.020	92	97	60-140	5.81	30
Diisopropyl ether (DIPE)	0.016	0.017	0.020	79	84	60-140	5.64	30
Ethylbenzene	0.019	0.020	0.020	94	98	60-140	4.24	30
Ethyl tert-butyl ether (ETBE)	0.015	0.016	0.020	74	79	60-140	6.32	30
Freon 113	0.016	0.018	0.020	82	89	50-140	7.60	30
Hexachlorobutadiene	0.020	0.021	0.020	100	103	60-140	3.58	30
Hexachloroethane	0.017	0.019	0.020	87	93	60-140	6.42	30
2-Hexanone	0.013	0.015	0.020	67	74	40-140	10.5	30
Isopropylbenzene	0.022	0.023	0.020	109	117	60-140	7.33	30
4-Isopropyl toluene	0.024	0.025	0.020	120	127	60-150	6.25	30
Methyl-t-butyl ether (MTBE)	0.014	0.015	0.020	71	75	50-140	5.97	30
Methylene chloride	0.023	0.024	0.020	114	120	60-140	4.78	30
4-Methyl-2-pentanone (MIBK)	0.014	0.014	0.020	68	69	50-140	2.49	30
Naphthalene	0.011	0.0092	0.020	54	46	30-140	16.2	30
n-Propyl benzene	0.023	0.024	0.020	116	120	60-140	3.70	30
Styrene	0.014	0.015	0.020	72	75	60-140	4.24	30
1,1,1,2-Tetrachloroethane	0.016	0.018	0.020	81	88	60-140	8.59	30
1,1,2,2-Tetrachloroethane	0.015	0.015	0.020	73	77	40-140	5.54	30
Tetrachloroethene	0.020	0.022	0.020	101	109	60-140	7.46	30
Toluene	0.018	0.019	0.020	88	93	60-140	5.87	30
1,2,3-Trichlorobenzene	0.012	0.011	0.020	58	54	40-140	6.89	30
1,2,4-Trichlorobenzene	0.015	0.015	0.020	75	73	50-140	2.76	30
1,1,1-Trichloroethane	0.018	0.020	0.020	91	98	60-140	8.19	30
1,1,2-Trichloroethane	0.016	0.016	0.020	78	81	60-140	4.07	30
Trichloroethene	0.018	0.020	0.020	92	98	60-140	6.52	30
Trichlorofluoromethane	0.017	0.018	0.020	83	90	50-140	7.52	30
1,2,3-Trichloropropane	0.0088	0.0093	0.010	88	93	60-130	5.28	30
1,2,4-Trimethylbenzene	0.022	0.023	0.020	110	116	30-140	4.51	30
1,3,5-Trimethylbenzene	0.024	0.025	0.020	119	127	60-140	6.45	30
Vinyl Chloride	0.0067	0.0073	0.010	67	73	30-140	8.59	30
m,p-Xylene	0.036	0.038	0.040	90	95	60-140	5.56	30
o-Xylene	0.017	0.018	0.020	85	89	60-140	5.05	30

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/05/2024	**BatchID:**	295160
Date Analyzed:	06/07/2024	**Extraction Method:**	SW5030B
Instrument:	GC49	**Analytical Method:**	SW8260D
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295160

QC Summary Report for SW8260D

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
Dibromofluoromethane	0.12	0.12	0.12	96	97	70-140	1.28	30
Toluene-d8	0.14	0.14	0.12	111	112	70-140	0.382	30
4-BFB	0.014	0.014	0.012	112	111	70-140	0.826	30
Benzene-d6	0.10	0.10	0.10	100	101	70-140	0.906	30
Ethylbenzene-d10	0.11	0.11	0.10	111	112	70-140	1.41	30
1,2-DCB-d4	0.075	0.076	0.10	75	76	70-140	2.05	30

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Acenaphthene	ND	0.00035	0.0013	-	-	-
Acenaphthylene	ND	0.00028	0.0013	-	-	-
Acetochlor	ND	0.044	0.25	-	-	-
Anthracene	ND	0.00057	0.0013	-	-	-
Benzidine	ND	0.36	1.2	-	-	-
Benzo (a) anthracene	ND	0.0036	0.012	-	-	-
Benzo (a) pyrene	ND	0.00070	0.0013	-	-	-
Benzo (b) fluoranthene	ND	0.0011	0.0025	-	-	-
Benzo (g,h,i) perylene	ND	0.00089	0.0025	-	-	-
Benzo (k) fluoranthene	ND	0.0010	0.0025	-	-	-
Benzoic Acid	ND	0.32	1.2	-	-	-
Benzyl Alcohol	ND	0.55	1.2	-	-	-
1,1-Biphenyl	0.0029,J	0.0029	0.012	-	-	-
Bis (2-chloroethoxy) Methane	ND	0.030	0.25	-	-	-
Bis (2-chloroethyl) Ether	ND	0.00036	0.0013	-	-	-
Bis (2-chloroisopropyl) Ether	ND	0.0012	0.0025	-	-	-
Bis (2-ethylhexyl) Adipate	ND	0.085	0.25	-	-	-
Bis (2-ethylhexyl) Phthalate	0.0082,J	0.0047	0.062	-	-	-
4-Bromophenyl Phenyl Ether	ND	0.040	0.25	-	-	-
Butylbenzyl Phthalate	ND	0.0036	0.062	-	-	-
4-Chloro-3-methylphenol	ND	0.062	0.25	-	-	-
4-Chloroaniline	ND	0.00092	0.0013	-	-	-
2-Chloronaphthalene	ND	0.041	0.25	-	-	-
2-Chlorophenol	ND	0.0024	0.012	-	-	-
4-Chlorophenyl Phenyl Ether	ND	0.066	0.25	-	-	-
Chrysene	ND	0.00067	0.0013	-	-	-
Dibenzo (a,h) anthracene	ND	0.0011	0.0025	-	-	-
Dibenzofuran	ND	0.000093	0.0013	-	-	-
Di-n-butyl Phthalate	ND	0.0044	0.062	-	-	-
1,2-Dichlorobenzene	ND	0.053	0.25	-	-	-
1,3-Dichlorobenzene	ND	0.042	0.25	-	-	-
1,4-Dichlorobenzene	ND	0.049	0.25	-	-	-
3,3-Dichlorobenzidine	ND	0.00089	0.0013	-	-	-
2,4-Dichlorophenol	ND	0.0012	0.0025	-	-	-
Diethyl Phthalate	ND	0.0040	0.012	-	-	-
2,4-Dimethylphenol	ND	0.044	0.25	-	-	-
Dimethyl Phthalate	ND	0.0019	0.0025	-	-	-
4,6-Dinitro-2-methylphenol	ND	0.41	1.2	-	-	-

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
2,4-Dinitrophenol	ND	0.11	0.25	-	-	-
2,4-Dinitrotoluene	ND	0.0036	0.012	-	-	-
2,6-Dichlorophenol	ND	0.0032	0.012	-	-	-
2,6-Dinitrotoluene	ND	0.0078	0.012	-	-	-
Di-n-octyl Phthalate	ND	0.20	0.62	-	-	-
1,2-Diphenylhydrazine	ND	0.038	0.25	-	-	-
Fluoranthene	ND	0.00079	0.0025	-	-	-
Fluorene	ND	0.0010	0.0025	-	-	-
Hexachlorobenzene	ND	0.0012	0.0013	-	-	-
Hexachlorobutadiene	ND	0.00019	0.0013	-	-	-
Hexachlorocyclopentadiene	ND	0.52	1.2	-	-	-
Hexachloroethane	ND	0.00062	0.0025	-	-	-
Indeno (1,2,3-cd) pyrene	ND	0.0016	0.0025	-	-	-
Isophorone	ND	0.069	0.25	-	-	-
1-Methylnaphthalene	ND	0.00033	0.0013	-	-	-
2-Methylnaphthalene	ND	0.00048	0.0013	-	-	-
2-Methylphenol (o-Cresol)	ND	0.060	0.25	-	-	-
3 & 4-Methylphenol (m,p-Cresol)	ND	0.046	0.25	-	-	-
Naphthalene	ND	0.00042	0.0025	-	-	-
2-Nitroaniline	ND	0.31	1.2	-	-	-
3-Nitroaniline	ND	0.24	1.2	-	-	-
4-Nitroaniline	ND	0.28	1.2	-	-	-
Nitrobenzene	ND	0.055	0.25	-	-	-
2-Nitrophenol	ND	0.31	1.2	-	-	-
4-Nitrophenol	ND	0.35	1.2	-	-	-
N-Nitrosodimethylamine	ND	0.22	1.2	-	-	-
N-Nitrosodi-n-propylamine	ND	0.079	0.25	-	-	-
N-Nitrosodiphenylamine	ND	0.029	0.25	-	-	-
Pentachlorophenol	ND	0.029	0.062	-	-	-
Phenanthrene	ND	0.00068	0.0013	-	-	-
Phenol	ND	0.0018	0.010	-	-	-
Pyrene	ND	0.00063	0.0013	-	-	-
Pyridine	ND	0.046	0.25	-	-	-
2,3,4,6-Tetrachlorophenol	ND	0.079	0.25	-	-	-
1,2,4-Trichlorobenzene	ND	0.046	0.25	-	-	-
2,4,5-Trichlorophenol	ND	0.00059	0.0025	-	-	-
2,4,6-Trichlorophenol	ND	0.00057	0.0025	-	-	-

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Surrogate Recovery						
2-Fluorophenol	1.8			1.25	141,F3	60-130
Phenol-d5	1.7			1.25	138,F3	50-130
Nitrobenzene-d5	1.5			1.25	122	60-130
2-Fluorobiphenyl	1.6			1.25	124	60-130
2,4,6-Tribromophenol	1.1			1.25	90	50-130
4-Terphenyl-d14	1.7			1.25	138,F3	50-130

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Acenaphthene	0.062	0.063	0.062	100	101	60-130	1.06	30
Acenaphthylene	0.060	0.061	0.062	96	98	60-130	1.80	30
Acetochlor	1.2	1.2	1.25	94	97	60-130	3.07	30
Anthracene	0.061	0.063	0.062	98	100	60-130	2.19	30
Benzidine	2.1	2.1	6.25	34	34	20-130	2.41	30
Benzo (a) anthracene	0.062	0.064	0.062	100	103	70-130	2.87	30
Benzo (a) pyrene	0.056	0.060	0.062	90	97	70-130	7.20	30
Benzo (b) fluoranthene	0.054	0.057	0.062	87	91	60-130	4.21	30
Benzo (g,h,i) perylene	0.054	0.056	0.062	86	89	70-130	3.67	30
Benzo (k) fluoranthene	0.069	0.070	0.062	111	113	70-130	1.45	30
Benzoic Acid	5.6	6.1	6.25	89	97	15-130	8.58	30
Benzyl Alcohol	5.2	5.3	6.25	83	86	70-130	3.15	30
1,1-Biphenyl	0.065	0.066	0.062	104	105	60-130	0.757	30
Bis (2-chloroethoxy) Methane	1.2	1.2	1.25	96	97	70-130	0.679	30
Bis (2-chloroethyl) Ether	0.054	0.055	0.062	86	89	60-130	3.31	30
Bis (2-chloroisopropyl) Ether	0.058	0.061	0.062	93	97	60-130	3.82	30
Bis (2-ethylhexyl) Adipate	1.4	1.5	1.25	113	120	60-130	6.05	30
Bis (2-ethylhexyl) Phthalate	0.059	0.066	0.062	94	105	60-130	11.2	30
4-Bromophenyl Phenyl Ether	1.1	1.1	1.25	89	91	60-130	2.43	30
Butylbenzyl Phthalate	0.066	0.073	0.062	106	116	60-130	9.03	30
4-Chloro-3-methylphenol	1.2	1.2	1.25	96	97	70-130	0.887	30
4-Chloroaniline	0.046	0.048	0.062	73	76	40-130	4.53	30
2-Chloronaphthalene	1.2	1.2	1.25	97	97	60-130	0.216	30
2-Chlorophenol	0.057	0.062	0.062	91	99	60-130	7.89	30
4-Chlorophenyl Phenyl Ether	1.2	1.2	1.25	97	96	70-130	0.673	30
Chrysene	0.061	0.063	0.062	98	100	70-130	2.86	30
Dibenzo (a,h) anthracene	0.054	0.056	0.062	87	89	70-130	3.05	30
Dibenzofuran	0.061	0.062	0.062	98	100	60-130	1.37	30
Di-n-butyl Phthalate	0.059	0.063	0.062	95	101	60-130	6.33	30
1,2-Dichlorobenzene	1.0	1.0	1.25	82	84	60-130	2.22	30
1,3-Dichlorobenzene	1.0	1.0	1.25	81	83	60-130	2.28	30
1,4-Dichlorobenzene	1.0	1.1	1.25	83	86	60-130	3.59	30
3,3-Dichlorobenzidine	0.045	0.050	0.062	72	80	40-130	11.0	30
2,4-Dichlorophenol	0.067	0.069	0.062	107	110	60-130	2.57	30
Diethyl Phthalate	0.063	0.064	0.062	100	103	70-130	2.71	30
2,4-Dimethylphenol	1.3	1.3	1.25	102	104	70-130	2.05	30
Dimethyl Phthalate	0.061	0.063	0.062	98	100	70-130	2.35	30
4,6-Dinitro-2-methylphenol	4.5	4.9	6.25	72	79	20-130	9.72	30

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
2,4-Dinitrophenol	0.70	0.79	1.25	56	64	15-130	13.2	30
2,4-Dinitrotoluene	0.064	0.066	0.062	102	105	70-130	3.32	30
2,6-Dichlorophenol	0.059	0.061	0.062	94	98	60-130	3.66	30
2,6-Dinitrotoluene	0.062	0.065	0.062	99	104	60-130	4.10	30
Di-n-octyl Phthalate	1.3	1.4	1.25	104	111	60-130	6.22	30
1,2-Diphenylhydrazine	1.2	1.3	1.25	99	100	60-130	1.16	30
Fluoranthene	0.060	0.061	0.062	96	98	70-130	1.82	30
Fluorene	0.068	0.066	0.062	108	106	60-130	2.35	30
Hexachlorobenzene	0.058	0.059	0.062	93	95	70-130	1.45	30
Hexachlorobutadiene	0.061	0.062	0.062	97	99	70-130	1.66	30
Hexachlorocyclopentadiene	5.5	5.7	6.25	88	91	60-130	2.82	30
Hexachloroethane	0.052	0.054	0.062	83	86	70-130	4.08	30
Indeno (1,2,3-cd) pyrene	0.055	0.057	0.062	87	92	70-130	4.94	30
Isophorone	1.1	1.2	1.25	89	98	60-130	9.66	30
1-Methylnaphthalene	0.063	0.064	0.062	100	102	70-130	1.75	30
2-Methylnaphthalene	0.064	0.065	0.062	102	104	70-130	2.22	30
2-Methylphenol (o-Cresol)	1.1	1.2	1.25	91	94	60-130	3.11	30
3 & 4-Methylphenol (m,p-Cresol)	1.2	1.2	1.25	94	96	60-130	1.67	30
Naphthalene	0.062	0.062	0.062	98	100	70-130	1.09	30
2-Nitroaniline	6.8	6.9	6.25	108	110	70-130	1.40	30
3-Nitroaniline	5.0	5.0	6.25	80	80	50-130	0.0116	30
4-Nitroaniline	6.0	6.0	6.25	96	96	60-130	0.290	30
Nitrobenzene	1.3	1.3	1.25	100	103	60-130	2.68	30
2-Nitrophenol	6.6	6.9	6.25	106	111	70-130	4.74	30
4-Nitrophenol	5.2	5.3	6.25	84	85	60-130	1.41	30
N-Nitrosodimethylamine	5.0	5.1	6.25	80	82	70-130	2.49	30
N-Nitrosodi-n-propylamine	1.0	1.1	1.25	83	87	60-130	4.47	30
N-Nitrosodiphenylamine	1.2	1.2	1.25	95	96	70-130	1.10	30
Pentachlorophenol	0.29	0.29	0.31	92	93	50-130	1.19	30
Phenanthrene	0.059	0.060	0.062	95	95	60-130	0.339	30
Phenol	0.23	0.24	0.25	93	97	60-130	4.10	30
Pyrene	0.070	0.072	0.062	113	115	70-130	2.31	30
Pyridine	0.85	0.82	1.25	68	66	60-130	2.82	30
2,3,4,6-Tetrachlorophenol	1.2	1.2	1.25	96	98	60-130	2.17	30
1,2,4-Trichlorobenzene	1.2	1.2	1.25	96	96	60-130	0.344	30
2,4,5-Trichlorophenol	0.065	0.067	0.062	103	108	60-130	4.02	30
2,4,6-Trichlorophenol	0.061	0.063	0.062	97	102	60-130	4.34	30

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/10/2024	**BatchID:**	295353
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC47	**Analytical Method:**	SW8270E
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295353

QC Summary Report for SW8270E

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Surrogate Recovery								
2-Fluorophenol	1.2	1.3	1.25	98	104	60-130	5.28	30
Phenol-d5	1.2	1.3	1.25	97	103	50-130	5.22	30
Nitrobenzene-d5	1.3	1.3	1.25	103	108	60-130	4.19	30
2-Fluorobiphenyl	1.3	1.3	1.25	102	105	60-130	2.59	30
2,4,6-Tribromophenol	1.3	1.3	1.25	102	103	50-130	0.487	30
4-Terphenyl-d14	1.4	1.4	1.25	114	116	50-130	1.71	30

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/14/2024	**BatchID:**	295785
Date Analyzed:	06/17/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295785 2406324-005AMS/MSD

QC Summary Report for Metals

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
Antimony	ND	0.10	0.50	-	-	-
Arsenic	ND	0.084	0.50	-	-	-
Barium	ND	0.73	5.0	-	-	-
Beryllium	ND	0.086	0.50	-	-	-
Cadmium	ND	0.080	0.50	-	-	-
Chromium	ND	0.17	0.50	-	-	-
Cobalt	ND	0.063	0.50	-	-	-
Copper	ND	0.19	0.50	-	-	-
Lead	ND	0.089	0.50	-	-	-
Mercury	ND	0.039	0.050	-	-	-
Molybdenum	0.093,J	0.093	0.50	-	-	-
Nickel	ND	0.28	0.50	-	-	-
Selenium	ND	0.21	0.50	-	-	-
Silver	ND	0.084	0.50	-	-	-
Thallium	ND	0.073	0.50	-	-	-
Vanadium	ND	0.097	0.50	-	-	-
Zinc	ND	1.8	5.0	-	-	-
Surrogate Recovery						
Terbium	520			500	103	70-130

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/14/2024	**BatchID:**	295785
Date Analyzed:	06/17/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295785 2406324-005AMS/MSD

QC Summary Report for Metals

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Antimony	49	48	50	98	97	75-125	1.19	20
Arsenic	52	51	50	103	103	75-125	0.259	20
Barium	500	500	500	100	100	75-125	0.128	20
Beryllium	51	51	50	102	102	75-125	0.141	20
Cadmium	51	51	50	102	102	75-125	0.0925	20
Chromium	52	51	50	104	102	75-125	2.27	20
Cobalt	51	52	50	103	103	75-125	0.505	20
Copper	53	53	50	105	105	75-125	0.103	20
Lead	51	51	50	102	102	75-125	0.125	20
Mercury	1.3	1.3	1.25	100	101	75-125	1.03	20
Molybdenum	50	50	50	99	99	75-125	0.0949	20
Nickel	52	51	50	104	103	75-125	1.60	20
Selenium	51	51	50	103	103	75-125	0.0429	20
Silver	48	48	50	95	96	75-125	0.434	20
Thallium	51	52	50	102	103	75-125	1.60	20
Vanadium	52	52	50	103	103	75-125	0.0562	20
Zinc	520	520	500	104	104	75-125	0.346	20
Surrogate Recovery								
Terbium	530	530	500	105	106	70-130	0.528	20

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Antimony	1	49	48	50	ND	97	96	75-125	1.53	20
Arsenic	1	52	54	50	2.627	100	102	75-125	2.54	20
Barium	1	2200	2300	500	1531	129,F10	157,F10	75-125	6.40	20
Beryllium	1	47	48	50	0.7110	93	94	75-125	1.13	20
Cadmium	1	51	50	50	ND	102	101	75-125	1.30	20
Chromium	1	110	120	50	68.98	91	94	75-125	1.52	20
Cobalt	1	61	58	50	12.27	98	92	75-125	4.96	20
Copper	1	240	240	50	177.0	122	117	75-125	0.953	20
Lead	1	60	60	50	8.243	103	103	75-125	0.0785	20
Mercury	1	1.4	1.5	1.25	0.1450	102	108	75-125	5.35	20
Molybdenum	1	50	49	50	ND	99	98	75-125	1.13	20
Nickel	1	160	160	50	107.3	106	100	75-125	1.93	20
Selenium	1	51	50	50	0.5750	100	100	75-125	0.388	20
Silver	1	47	48	50	ND	94	95	75-125	0.765	20

(Cont.)

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/14/2024	**BatchID:**	295785
Date Analyzed:	06/17/2024	**Extraction Method:**	SW3050B
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295785 2406324-005AMS/MSD

QC Summary Report for Metals

Analyte	MS DF	MS Result	MSD Result	SPK Val	SPKRef Val	MS %REC	MSD %REC	MS/MSD Limits	RPD	RPD Limit
Thallium	1	52	51	50	ND	104	101	75-125	3.08	20
Vanadium	1	120	130	50	63.83	104	129,F10	75-125	10.5	20
Zinc	1	590	580	500	64.25	104	103	75-125	1.12	20
Surrogate Recovery										
Terbium	1	530	530	500		106	106	70-130	0.370	20

Analyte	DLT Result	DLTRef Val	%D	%D Limit
Antimony	ND<2.5	ND	100	-
Arsenic	2.6	2.6	0.0761	-
Barium	1400	1500	5.51	20
Beryllium	ND<2.5	0.71	0.141	-
Cadmium	ND<2.5	ND		-
Chromium	72	69	5.11	20
Cobalt	13	12	5.91	20
Copper	180	180	0.802	20
Lead	7.9	8.2	4.65	-
Mercury	ND<0.25	0.15	100	-
Molybdenum	ND<2.5	ND	142	-
Nickel	110	110	0.998	20
Selenium	ND<2.5	0.58	100	-
Silver	ND<2.5	ND		-
Thallium	ND<2.5	ND	100	-
Vanadium	67	64	4.81	20
Zinc	61	64	5.35	-

%D Control Limit applied to analytes with concentrations greater than 25 times the reporting limits.

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/14/2024	**BatchID:**	295779
Date Analyzed:	06/14/2024	**Extraction Method:**	ASTM D2216
Instrument:	WetChem	**Analytical Method:**	SW8000
Matrix:	Soil	**Unit:**	wet wt%
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB-295779 2406324-005A

QC Summary Report for Percent Moisture

Analyte	MB Result	MDL	RL			
% Moisture	ND	0.100	0.100	-	-	-

Analyte	SAMP Result	DUP Result	RPD	RPD Limit
% Moisture	10.7	10.2	4.50	15

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/06/2024	**BatchID:**	295173
Date Analyzed:	06/10/2024	**Extraction Method:**	SW3550B
Instrument:	GC6B	**Analytical Method:**	SW8015B
Matrix:	Soil	**Unit:**	mg/Kg
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295173

QC Report for SW8015B w/out SG Clean-Up

Analyte	MB Result	MDL	RL	SPK Val	MB SS %REC	MB SS Limits
TPH-Diesel (C10-C23)	ND	1.1	2.0	-	-	-
TPH-Motor Oil (C18-C36)	ND	4.3	10	-	-	-
Surrogate Recovery						
C9	22			25	90	70-130

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
TPH-Diesel (C10-C23)	35	37	40	88	93	70-130	6.44	20
Surrogate Recovery								
C9	23	23	25	93	94	70-130	0.375	20

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CHAIN-OF-CUSTODY RECORD

WorkOrder: 2406324 **ClientCode: ENGE**

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☑ Detection Summary ☑ Excel []

Report to:
Scott Johns
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
(925) 866-9000 FAX: 888-279-2698

Email: sjohns@engeo.com
cc/3rd Party:
PO:
Project: 16484.001.001; Scotts Valley Development

Bill to:
Chantelle Maloney
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
AP@engeo.com; cmaloney@engeo.co

Requested TAT: **5 days;**

Date Received: **06/05/2024**
Date Logged: **06/06/2024**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2406324-001	Tailings C S1	Soil	6/5/2024 13:30	☐	A	A	A	A	A	A	A	A				
2406324-002	Tailings C S2	Soil	6/5/2024 13:45	☐	A	A	A	A	A	A	A	A				
2406324-003	Tailings C S3	Soil	6/5/2024 14:02	☐	A	A	A	A	A	A	A	A				
2406324-004	Tailings C S4	Soil	6/5/2024 14:14	☐	A	A	A	A	A	A	A	A				

Test Legend:

1	8081PCB_S	2	8260_S	3	8260GAS_S	4	8270_SCSM_S
5	CAM17MS_TTLC_S	6	PRDisposal Fee	7	STLC_MSEXTRACTONLY	8	TPH(DMO)_S
9		10		11		12	

Prepared by: Agustina Venegas

The following SampIDs: 001A, 002A, 003A, 004A contain testgroup Gas8260_S.

Comments:

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email: sjohns@engeo.com

Project: 16484.001.001; Scotts Valley Development
Comments:

Work Order: 2406324
QC Level: LEVEL 2
Date Logged: 6/6/2024

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LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
001A	Tailings C S1	Soil	SW8015B (Diesel & Motor Oil)	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 13:30	5 days	6/12/2024		☐	☐
			STLC Extract and Hold			☐	☐	☐		5 days*	6/12/2024		☐	☐
			SW6020 (CAM 17)			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8270E (SVOCs)			☐	☐	☐		5 days	6/12/2024		☐	☐
			TPH(g) & 8260 by P&T GCMS			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8081B/8082A (OC Pesticides+PCBs)			☐	☐	☐		5 days	6/12/2024		☐	☐
002A	Tailings C S2	Soil	SW8015B (Diesel & Motor Oil)	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 13:45	5 days	6/12/2024		☐	☐
			STLC Extract and Hold			☐	☐	☐		5 days*	6/12/2024		☐	☐
			SW6020 (CAM 17)			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8270E (SVOCs)			☐	☐	☐		5 days	6/12/2024		☐	☐
			TPH(g) & 8260 by P&T GCMS			☐	☐	☐		5 days	6/12/2024		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont./Comp. = Containers /Composites

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email: sjohns@engeo.com

Project: 16484.001.001; Scotts Valley Development
Comments:

Work Order: 2406324
QC Level: LEVEL 2
Date Logged: 6/6/2024

☐ WaterTrax ☐ CLIP ☐ EDF ☑ Excel ☐ EQuIS ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag

LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
002A	Tailings C S2	Soil	SW8081B/8082A (OC Pesticides+PCBs)	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 13:45	5 days	6/12/2024		☐	☐
003A	Tailings C S3	Soil	SW8015B (Diesel & Motor Oil)	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 14:02	5 days	6/12/2024		☐	☐
			STLC Extract and Hold			☐	☐	☐		5 days*	6/12/2024		☐	☐
			SW6020 (CAM 17)			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8270E (SVOCs)			☐	☐	☐		5 days	6/12/2024		☐	☐
			TPH(g) & 8260 by P&T GCMS			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8081B/8082A (OC Pesticides+PCBs)			☐	☐	☐		5 days	6/12/2024		☐	☐
004A	Tailings C S4	Soil	SW8015B (Diesel & Motor Oil)	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 14:14	5 days	6/12/2024		☐	☐
			STLC Extract and Hold			☐	☐	☐		5 days*	6/12/2024		☐	☐
			SW6020 (CAM 17)			☐	☐	☐		5 days	6/12/2024		☐	☐
			SW8270E (SVOCs)			☐	☐	☐		5 days	6/12/2024		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email: sjohns@engeo.com

Project: 16484.001.001; Scotts Valley Development
Comments:

Work Order: 2406324
QC Level: LEVEL 2
Date Logged: 6/6/2024

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LabID	ClientSampID	Matrix	Test Name	Cont./ Comp.	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
004A	Tailings C S4	Soil	TPH(g) & 8260 by P&T GCMS	1	Stainless Steel tube 2"x6"	☐	☐	☐	6/5/2024 14:14	5 days	6/12/2024		☐	☐
			SW8081B/8082A (OC Pesticides+PCBs)			☐	☐	☐		5 days	6/12/2024		☐	☐

NOTES: * STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).

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CHAIN OF CUSTODY RECORD

2406324

PROJECT NUMBER:	PROJECT NAME:
16484.001.001	Scotts Valley Developoment

SAMPLED BY: (SIGNATURE/PRINT) [signature] / Lois Beeson

PROJECT MANAGER: Scott Johns

ROUTING: E-MAIL sjohns@engeo.com Hard Copy NA

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	VOCs + TPHgas (8260B)	TPH-diesel and -motor oil (8015M)	SVOCs (8270)	OCPs (8081)	PCBs (8082)	CAM 17 Metals (6010)	STLC Extraction and HOLD	REMARKS REQUIRED DETECTION LIMITS
Tailings C S1	6/5/2024	1:30	Soil	1	Liner	Ice	X	X	X	X	X	X	X	
Tailings C S2	6/5/2024	1:45	Soil	1	Liner	Ice								
Tailings C S3	6/5/2024	2:02	Soil	1	Liner	Ice								
Tailings C S4	6/5/2024	2:14	Soil	1	Liner	Ice								

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	6/5/24 4:01	[signature]	6/5/24 1601		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
			[signature]		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	
				Standard 5-day TAT. Discrete	

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT; COPY TO PROJECT FIELD FILES

ENGEO INCORPORATED

2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

McCampbell Analytical, Inc.
"When Quality Counts"

1534 Willow Pass Road, Pittsburg, CA 94565-1701
Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269
http://www.mccampbell.com / E-mail: main@mccampbell.com

Sample Receipt Checklist

Client Name:	ENGEO Incorporated	Date and Time Received:	6/5/2024 16:04
Project:	16484.001.001; Scotts Valley Development	Date Logged:	6/6/2024
		Received by:	Lilly Ortiz
WorkOrder №:	2406324 Matrix: Soil	Logged by:	Agustina Venegas
Carrier:	Client Drop-In		

Chain of Custody (COC) Information

Chain of custody present?	Yes	☑	No	☐		
Chain of custody signed when relinquished and received?	Yes	☑	No	☐		
Chain of custody agrees with sample labels?	Yes	☑	No	☐		
Sample IDs noted by Client on COC?	Yes	☑	No	☐		
Date and Time of collection noted by Client on COC?	Yes	☑	No	☐		
Sampler's name noted on COC?	Yes	☑	No	☐		
COC agrees with Quote?	Yes	☐	No	☐	NA	☑

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes	☐	No	☐	NA	☑
Custody seals intact on sample bottles?	Yes	☐	No	☐	NA	☑
Shipping container/cooler in good condition?	Yes	☑	No	☐		
Samples in proper containers/bottles?	Yes	☑	No	☐		
Sample containers intact?	Yes	☑	No	☐		
Sufficient sample volume for indicated test?	Yes	☑	No	☐		

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes	☑	No	☐	NA	☐
Samples Received on Ice?	Yes	☑	No	☐		
(Ice Type: WET ICE)						
Sample/Temp Blank temperature	Temp: 1°C				NA	☐
ZHS conditional analyses: VOA meets zero headspace requirement (VOCs, TPHg/BTEX, RSK)?	Yes	☐	No	☐	NA	☑
Sample labels checked for correct preservation?	Yes	☑	No	☐		
pH acceptable upon receipt (Metal: <2)?	Yes	☐	No	☐	NA	☑

UCMR Samples:

pH tested and acceptable upon receipt (200.7: ≤2; 533: 6 - 8; 537.1: 6 - 8)?	Yes	☐	No	☐	NA	☑
Free Chlorine tested and acceptable upon receipt (<0.1mg/L) [not applicable to 200.7]?	Yes	☐	No	☐	NA	☑

Comments:

McCampbell Analytical, Inc.
"When Quality Counts"

Analytical Report

WorkOrder: 2406324 B

Report Created for: ENGEO Incorporated

2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634

Project Contact: Scott Johns
Project P.O.:
Project: 16484.001.001; Scotts Valley Development

Project Location:
Project Received: 06/05/2024

Analytical Report reviewed & approved for release on 06/19/2024 by:

Christine Askari
Project Manager

McCampbell Analytical, Inc.
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http://www.mccampbell.com / E-mail: main@mccampbell.com

Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2406324 B

Project: 16484.001.001; Scotts Valley Development

Glossary Abbreviation

%D	Serial Dilution Percent Difference
95% Interval	95% Confident Interval
CCV	Continuing Calibration Verification.
CCV REC (%)	% recovery of Continuing Calibration Verification.
CPT	Consumer Product Testing not NELAP Accredited
DF	Dilution Factor
DI WET	(DISTLC) Waste Extraction Test using DI water
DISS	Dissolved (direct analysis of 0.45 µm filtered and acidified water sample)
DLT	Dilution Test (Serial Dilution)
DUP	Duplicate
EDL	Estimated Detection Limit
ERS	External reference sample. Second source calibration verification.
ITEF	International Toxicity Equivalence Factor
LCS	Laboratory Control Sample
LCS2	Second LCS for the batch. Spike level is lower than that for the first LCS; applicable to method 1633.
LQL	Lowest Quantitation Level
MB	Method Blank
MB % Rec	% Recovery of Surrogate in Method Blank, if applicable
MDL	Method Detection Limit [1]
ML	Minimum Level of Quantitation
MS	Matrix Spike
MSD	Matrix Spike Duplicate
NA	Not Applicable
ND	Not detected at or above the indicated MDL or RL
NR	Data Not Reported due to matrix interference or insufficient sample amount.
PDS	Post Digestion Spike
PF	Prep Factor
RD	Relative Difference
RL	Reporting Limit [2]
RPD	Relative Percent Difference
RRT	Relative Retention Time
RSD	Relative Standard Deviation
SNR	Surrogate is diluted out of the calibration range
SPK Val	Spike Value

[1] MDL is the minimum measured concentration of a substance that can be reported with 99% confidence that the measured concentration is distinguishable from method blank results. Definition and Procedure for the Determination of the Method Detection Limit, Revision 2, 40CFR, Part 136, Appendix B, EPA 821-R-16-006, December 2016. Values are based upon our default extraction volume/amount and are subject to change.

[2] RL is the lowest level that can be reliably determined within specified limits of precision and accuracy during routine laboratory operating conditions. (The RL cannot be lower than the lowest calibration standard used in the initial calibration of the instrument and must be greater than the MDL.) Values are based upon our default extraction volume/amount and are subject to change.

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Glossary of Terms & Qualifier Definitions

Client: ENGEO Incorporated **WorkOrder:** 2406324 B

Project: 16484.001.001; Scotts Valley Development

SPKRef Val	Spike Reference Value
SPLP	Synthetic Precipitation Leachate Procedure
ST	Sorbent Tube
TCLP	Toxicity Characteristic Leachate Procedure
TEQ	Toxicity Equivalents
TNTC	“Too Numerous to Count;” greater than 250 colonies observed on the plate.
TZA	TimeZone Net Adjustment for sample collected outside of MAI's Coordinated Universal Time (UTC). (Adjustment for Daylight Saving is not accounted.)
WET (STLC)	Waste Extraction Test (Soluble Threshold Limit Concentration)

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Analytical Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Received:	06/05/2024 16:04	**Extraction Method:**	CA Title 22
Date Prepared:	06/15/2024	**Analytical Method:**	SW6020
Project:	16484.001.001; Scotts Valley Development	**Unit:**	mg/L

Metals (STLC)

Client ID	Lab ID	Matrix	Date Collected	Instrument	Batch ID
Tailings C S1,2,3,4	**2406324-005A**	**Soil**	**06/06/2024 14:14**	**ICP-MS6 117SMPL.d**	**295823**

Analytes	Result	RL	DF	Date Analyzed
Barium	**39**	1.0	1	06/18/2024 15:48
Chromium	ND	0.10	1	06/18/2024 15:48

Analyst(s): MIG

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Quality Control Report

Client:	ENGEO Incorporated	**WorkOrder:**	2406324
Date Prepared:	06/15/2024	**BatchID:**	295823
Date Analyzed:	06/17/2024	**Extraction Method:**	CA Title 22
Instrument:	ICP-MS4	**Analytical Method:**	SW6020
Matrix:	Soil	**Unit:**	mg/L
Project:	16484.001.001; Scotts Valley Development	**Sample ID:**	MB/LCS/LCSD-295823

QC Summary Report for Metals (STLC)

Analyte	MB Result	MDL	RL			
Barium	ND	1.0	1.0	-	-	-
Chromium	ND	0.10	0.10	-	-	-

Analyte	LCS Result	LCSD Result	SPK Val	LCS %REC	LCSD %REC	LCS/LCSD Limits	RPD	RPD Limit
Barium	98	99	100	98	99	75-125	1.48	20
Chromium	9.8	9.9	10	98	99	75-125	0.0690	20

McCampbell Analytical, Inc.
1534 Willow Pass Rd
Pittsburg, CA 94565-1701
(925) 252-9262

CHAIN-OF-CUSTODY RECORD

WorkOrder: 2406324 B **ClientCode: ENGE**

☐ WaterTrax ☐ CLIP ☐ EDF ☒ EQuIS ☒ Dry-Weight ☑ Email ☐ HardCopy ☐ ThirdParty ☐ J-flag
☒ Detection Summary ☑ Excel []

Report to:
Scott Johns
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
(925) 866-9000 FAX: 888-279-2698

Email: sjohns@engeo.com
cc/3rd Party:
PO:
Project: 16484.001.001; Scotts Valley Development

Bill to:
Chantelle Maloney
ENGEO Incorporated
2010 Crow Canyon Place, Ste 250
San Ramon, CA 94583-4634
AP@engeo.com; cmaloney@engeo.co

Requested TAT: **1 day;**

Date Received: **06/05/2024**
Date Logged: **06/06/2024**
Date Add-On: **06/18/2024**

Lab ID	ClientSampID	Matrix	Collection Date	Hold	Requested Tests (See legend below)											
					1	2	3	4	5	6	7	8	9	10	11	12
2406324-005	Tailings C S1,2,3,4	Soil	6/6/2024 14:14	☐	A											

Test Legend:

1	METALSMS_STLC_S	2		3		4	
5		6		7		8	
9		10		11		12	

Prepared by: Agustina Venegas

Add-On Prepared By: Maria Venegas

Comments: 4pt Comp added for CAM17, STLC Extraction, percent moisture 6/13/24 Rush TAT. STLC Cr,Ba added to 005 6/18/24 Rush TAT.

NOTE: Soil samples are discarded 60 days after receipt unless other arrangements are made (Water samples are 30 days).
Hazardous samples will be returned to client or disposed of at client expense.

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WORK ORDER SUMMARY

Client Name: ENGEO INCORPORATED
Client Contact: Scott Johns
Contact's Email sjohns@engeo.com

Project: 16484.001.001; Scotts Valley Development
Comments: 4pt Comp added for CAM17, STLC Extraction, percent moisture 6/13/24 Rush TAT. STLC Cr,Ba added to 005 6/18/24 Rush TAT.

Work Order: 2406324
QC Level: LEVEL 2
Date Logged: 6/6/2024
Date Add-On: 6/18/2024

LabID	ClientSampID	Matrix	Test Name	Cont. /Comp	Bottle & Preservative	U**	Head Space	Dry-Weight	Collection Date & Time	TAT	Test Due Date	Sediment Content	Hold	Sub Out
005A	Tailings C S1,2,3,4	Soil	SW6020 (Metals) (STLC) <Barium, Chromium>	4 / (4:1)	Stainless Steel tube 2"x6"	☐	☐	☐	6/6/2024 14:14	1 day*	6/21/2024		☐	☐

NOTES: *** STLC and TCLP extractions require 2 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 3 days from sample submission).**

- ISM prep requires 5 to 10 days to complete; therefore, all TATs begin after the extraction is completed (i.e., One-day TAT yields results in 6 to 11 days from sample submission). Due date listed on WO summary will not accurately reflect the time needed for sample preparation.

- Organic extracts are held for 40 days before disposal; Inorganic extract are held for 30 days.

- MAI assumes that all material present in the provided sampling container is considered part of the sample - MAI does not exclude any material from the sample prior to sample preparation unless requested in writing by the client.

U = An unpreserved container was received for a method that suggests a preservation in order to extend hold time for analysis.**

Cont. / Comp. = Containers /Composites

CHAIN OF CUSTODY RECORD

2406324

PROJECT NUMBER: 16484.001.001	PROJECT NAME: Scotts Valley Developoment
SAMPLED BY: (SIGNATURE/PRINT)	[illegible] / Lois Barson
PROJECT MANAGER: Scott Johns	
ROUTING: E-MAIL sjohns@engeo.com	Hard Copy NA

SAMPLE NUMBER	DATE	TIME	MATRIX	NUMBER OF CONTAINERS	CONTAINER SIZE	PRESERVATIVE	VOCs + TPHgas (8260B)	TPH-diesel and -motor oil (8015M)	SVOCs (8270)	OCPs (8081)	PCBs (8082)	CAM 17 Metals (6010)	STLC Extraction and HOLD	4pt COMP	CAM17	STLC Ba,Cr	REMARKS REQUIRED DETECTION LIMITS
Tailings C S1	6/5/2024	1:30	Soil	1	Liner	Ice	X	X	X	X	X	X	X	X	X	X	
Tailings C S2	6/5/2024	1:45	Soil	1	Liner	Ice											
Tailings C S3	6/5/2024	2:02	Soil	1	Liner	Ice											
Tailings C S4	6/5/2024	2:14	Soil	1	Liner	Ice											

RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
[signature]	6/5/24 4:01	[signature]	6/5/24 1601		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)	RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED BY: (SIGNATURE)
			[signature]		
RELINQUISHED BY: (SIGNATURE)	DATE/TIME	RECEIVED FOR LABORATORY BY: (SIGNATURE)	DATE/TIME	REMARKS	

REMARKS
Standard 5-day TAT.
Discrete 4pt Comp CAM17
6/13/24 RUSH

DISTRIBUTION: ORIGINAL ACCOMPANIES SHIPMENT, COPY TO PROJECT FIELD FILES

Added 6/18/24 RUSH

ENGEO INCORPORATED
2010 CROW CANYON PLACE, SUITE 250
SAN RAMON, CALIFORNIA 94583
(925) 866-9000 FAX (888) 279-2698
WWW.ENGEO.COM

Appendix M-5

Soil Testing Memo August 2024

Project No.
16484.001.001

August 20, 2024

Mr. Casey Spanish
Integrated Resort Development
3330 West Desert Inn Road
Las Vegas, NV 89102

Subject: Scotts Valley Development
Vallejo, California

DISPOSAL SUMMARY

Dear Mr. Spanish:

We were retained by Integrated Resort Development (IRD) to prepare this disposal summary letter associated with approximately 114 tons (approximately 75 cubic yards in volume) of stockpile material that was disposed at Potrero Hills Landfill. The stockpile, identified as Tailings C pile, was located within the Scotts Valley Development project in Vallejo, California (see Figure 1, attached).

DISPOSAL ACTIVITIES

Prior to field excavation and disposal, stockpile material was profiled and accepted for disposal at Potrero Hills Landfill in Suisun City, California. Potrero Hills Landfill accepted disposal as “clean dirt.”

On August 25, 2024, the general contractor, KDW Construction, LLC (KDW) excavated and direct loaded stockpile material into offhaul trucks operated by Mag Trucking, Inc. (MT). ENGEO was on site observing excavation and offhaul activities. KDW completed excavation and offhaul the same day on August 25, 2024.

Approximately 114 tons were excavated and disposed of at Potrero Hills Landfill. The Potrero Hills Landfill disposal invoice/log and trucking tags are attached.

If you have any questions or comments regarding this letter, please call and we will be glad to discuss them with you.

Sincerely,

ENGEO Incorporated

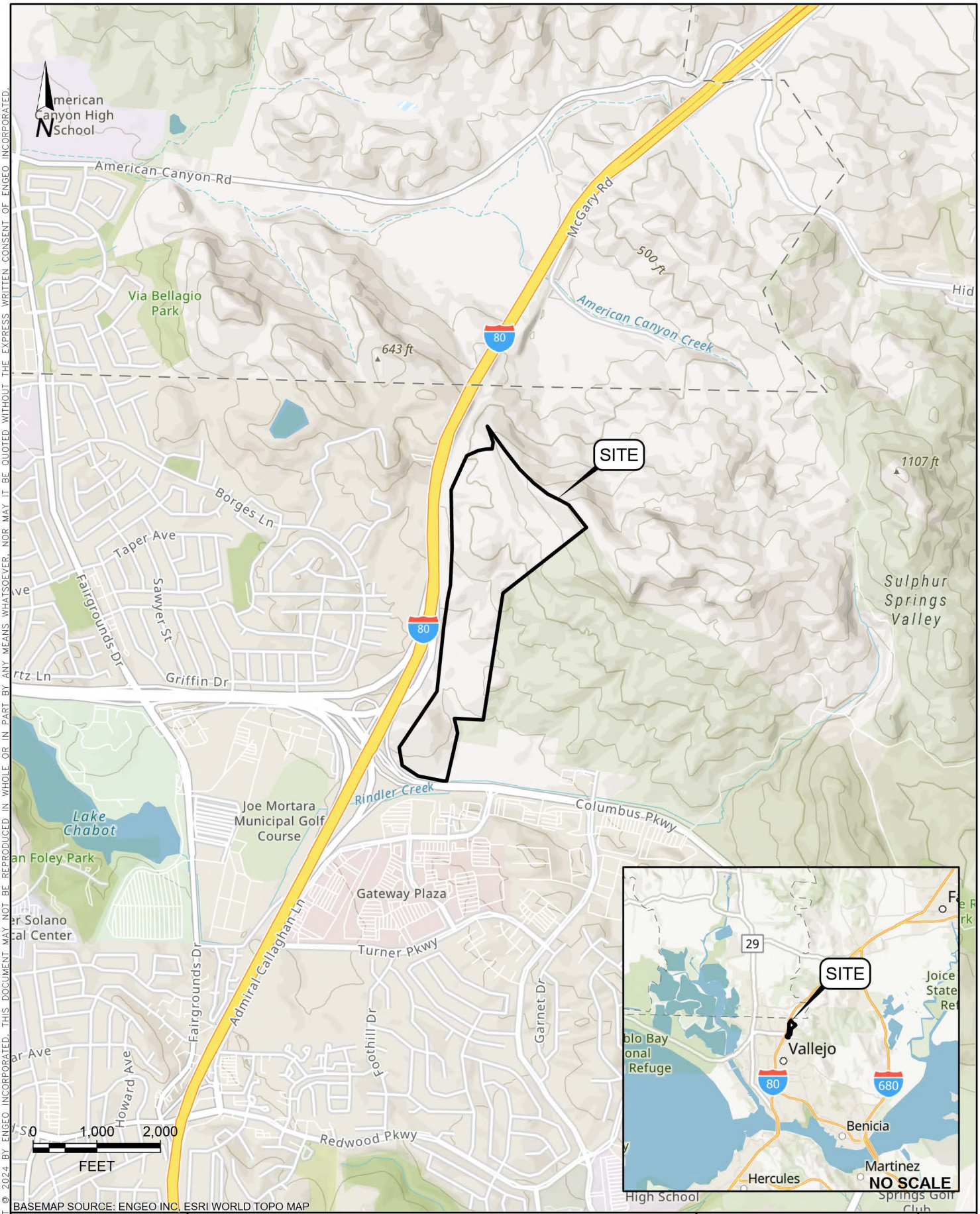
Scott Johns, PE

Nadine Periat, PG

sj/np/jg

Attachments: Figures
Potrero Hills Landfill Invoice/Log and Truck Tags

FIGURES



BASEMAP SOURCE: ENGEO INC, ESRI WORLD TOPO MAP

ENGEO Expect Excellence

VICINITY MAP

VALLEJO SCOTTS VALLEY

VALLEJO, CALIFORNIA

PROJECT NO. :	16484.001.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 1

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 01. VICINITY 8.5 X 11 PORTRAIT USER: MHAWKINS

BASEMAP SOURCE: GOOGLE EARTH MAPPING SERVICE 2022

EXPLANATION

ALL LOCATIONS ARE APPROXIMATE

Project Site

Tailings C Approximate Area

ENGEO Expect Excellence

SITE PLAN

VALLEJO SCOTTS VALLEY

VALLEJO, CALIFORNIA

PROJECT NO. :	16484.001.001
SCALE:	AS SHOWN
DRAWN BY: MMH	CHECKED BY: SPM

FIGURE NO. 2

ORIGINAL FIGURE PRINTED IN COLOR

PATH: G:\DRAFTING\PROJECTS_16000 TO 17999\16484\16484000001\SOIL_SAMPLING\16484000001_VALLEJO_SCOTTS_VALLEY.APRX
LAYOUT: 02. SITE PLAN 8.5 X 11 PORTRAIT USER: MHAWKINS

POTRERO HILLS LANDFILL INVOICE/LOG AND TRUCK TAGS

16484.001.001
August 20, 2024

POTRERO HILLS LANDFILL, INC.
P.O. Box 68
FAIRFIELD, CA 94533
(707) 432-4628

INVOICE

POTRERO HILLS LANDFILL

DATE	PAGE
7/31/24	

INVOICE NUMBER

AMOUNT DUE	AMOUNT PAID

MAG TRUCKING
ACCOUNTS PAYABLE
3500 ENTERPRISE AVENUE
HAYWARD, CA 94545

ACCOUNT NO.
4040- 2599

DATE	TICKET	VEHICLE	REFERENCE	DESCRIPTION	QUANTITY	AMOUNT
07/25/24	1611865	69570H1	PH24628	Clean Dirtl/Ton-ADC	14.28	
07/25/24	1611868	74137R3	PH24628	Clean Dirtl/Ton-ADC	15.21	
07/25/24	1611871	17707H2	PH24628	Clean Dirtl/Ton-ADC	12.84	
07/25/24	1611930	17707H2	PH24628	Clean Dirtl/Ton-ADC	14.80	
07/25/24	1611948	74137R3	PH24628	Clean Dirtl/Ton-ADC	12.97	
07/25/24	1611952	69570H1	PH24628	Clean Dirtl/Ton-ADC	13.16	
07/25/24	1612001	17707H2	PH24628	Clean Dirtl/Ton-ADC	10.77	
07/25/24	1612025	74137R3	PH24628	Clean Dirtl/Ton-ADC	9.50	
07/25/24	1612036	69570H1	PH24628	Clean Dirtl/Ton-ADC	10.43	

FREIGHT BILL

110327

SUNNY MOTORS TRANSPORT INC.

2295 Malibu Ct. • Brentwood, CA 94513
925-822-4836 • smtincdispatch@gmail.com

TRUCK NUMBER 82 | # OF AXLES 4 | AM PM

S M T W T F S

JOB NUMBER / P.O.# 24014 | TRAILER NUMBER | TRAILER NUMBER | DATE 7 / 25 / 24 (MONTH / DAY / YEAR)

PRIME CARRIER: MAG'S | SUB HAULER: SUNNY MOTORS

A	TIME DRIVER TOLD TO REPORT FOR WORK	7.00
B	THE RUNNING TIME OF LAST TRIP	
C	DEDUCTIBLE TIME FOR MEALS OR FAILURE OF CARRIER EQUIPMENT	

COMPANY LOADING MATERIAL: KDW CONSTRUCTION
ADDRESS: AUTO MALL PKWY/ADMIRAL
CITY: VALLEJO

COMPANY RECEIVING MATERIAL: POTRERO LANDFILL
ADDRESS: 3675 POTRERO HILL
CITY: SUISUN CITY

EQUIPMENT
- ☐ SEMI BOTTOM
- ☐ END DUMP
- ☐ DOUBLE BOTTOM
- ☑ SUPERDUMP
- ☐ TRANSFER
- ☐ SUPER TEN
- ☐ 10-WHEELER
- ☐ FLAT BED
- ☐ LOW BED

LOADING SITE

DELIVERY SITE

DISTANCE IN MILES

	TAG NO.	WEIGHT	LOADING ARRIVE	LOADING DEPART	OFFICE USE ONLY STAND BY	UNLOADING ARRIVE	UNLOADING DEPART	OFFICE USE ONLY STAND BY	STAND-BY REASON
1	0128	15.21	7.00	8.36		9.02	9.30		
2	C1-0111948	12.97	10.16	10.36		10.59	11.26		
3	C1-01612085	9.50	12.02	12.16		12.50	1.30		
4			2.00						
5									
6									
7				12:16					
8									Loaded
9			12						
10									Singed
11									out @
12									12.16
13									
14									
15									
16									
17									700-130+30=7.0
18									8.0 hrs
19									37.60

SHIPPER/LOADER SIGNATURE

DRIVER'S SIGNATURE

CONSIGNEE/RECEIVER SIGNATURE

TYPE OF LOADING AT ORIGIN: POWER | BUNKER | OTHER

COMMODITY TRANSPORTED: DIRT

START TIME | END TIME | TOTAL TIME

TOTAL BRIDGE: ____ @ ____ = ____

TAGS MUST BE TURNED INTO THE OFFICE WITHIN 3 DAYS OF WORK PERFORMED

TERMS

THIS BILL IS DUE AND PAYABLE WITHIN 20 DAYS OF THE INVOICE DATE. A SERVICE CHARGE OF 1½ PER MONTH (18% PER ANNUM) WILL BE CHARGED ON ALL OVERDUE ACCOUNTS IN THE EVENT LEGAL PROCEEDINGS ARE COMMENCED TO COLLECT PAYMENT, SUNNY MOTORS TRANSPORT INC. SHALL BE ENTITLED TO RECOVER COSTS OF SUIT, INCLUDING REASONABLE ATTORNEY FEES. OWNERSHIP OF MATERIAL TRANSFERS TO BUYER BEFORE LOADING ON TRUCK.

FREIGHT BILL

No. A 138414

TRUCK NO. 49 | TRAILER NO. 510

HAULER NAME: NANAK

JOB NO. 24014

Trucking Firm Name: NANAK TRUCK LINES INC

City:

CA#:

AM PM

S M T W T F S

DATE 07 / 25 / 24

MONTH DAY YEAR

EQUIPMENT
- ☐ SEMI BOTTOM
- ☐ END DUMP
- ☐ DOUBLE BOTTOM
- ☐ SUPERDUMP
- ☐ TRANSFER
- ☐ HIGH SIDE
- ☐ 10-WHEELER
- ☐ FLAT BED
- ☐ SUPERTEN

COMPANY LOADING MATERIAL: KDW CONSTRUCTION LLC

COMPANY RECEIVING MATERIAL: POTRERO HILL

POINT OF ORIGIN: AUTO MALL COLUMBUS PKWY

DESTINATION: 3675 POTRERO HILL

CITY: VALLEJO

CITY: SUISUN CITY

SCHEDULED START TIME: 7:00

MATERIAL: DIRT

NO.	SCALE TAG NO.	WEIGHT	LOADING TIME ARRIVE	LOADING TIME LEAVE	FOR OFFICE USE ONLY STAND BY	UNLOADING TIME ARRIVE	UNLOADING TIME LEAVE	FOR OFFICE USE ONLY STAND BY	COMMENTS/STAND BY REASON
1	01-0161871	12.84	7:00	7:06		9:49	9:55		
2 ✓	0101C11330	14.50	9:09	10:01		10:39	10:55		
3 ✓	01-0161900	10.77	11:27	11:41		12:15	12:30		
4			1:00						
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									400-1230130-6.0
16									80 hr min
17									

START TIME 7:00 | STOP TIME | DEDUCT TIME | TRAVEL TIME

DRIVER'S SIGNATURE: MANJEET SINGH

RECEIVED BY: Lucelino Fausto

TRUCK FINISHED ☐ LOADED ☐ UNLOADED

TIME ☐ AM ☐ PM

TOTAL HOURS	
TOTAL TONS	38.47
TOTAL LOADS	
TOTAL BRIDGE	@
TOTAL CHARGES	$

* Attorney's Fees: In the event the parties hereto become involved in litigation arising out of this contract, or the performance or breach thereof, the court in such litigation, or in a separate suit, shall award reasonable costs, expenses and attorney's fees to the prevailing party. The court shall not be bound by any court fee schedule, and may, in the interest of justice, award the full amount of costs, expenses and attorney's fees incurred in good faith." All bills due and payable by the 25th of the month. 1.5% per month charged on past due accounts.

FREIGHT BILL

No. A 138713

AM | PM

S M T W (T) F S

TRUCK NO. 54 | TRAILER NO. S/D

Trucking Firm Name: Sohi logistics

City: UNION CITY

CA#:

HAULER NAME: Sohi

JOB NO. 240141

DATE 07 / 25 / 24
MONTH DAY YEAR

EQUIPMENT
☐ SEMI BOTTOM ☐ TRANSFER
☐ END DUMP ☐ HIGH SIDE
☐ DOUBLE BOTTOM ☐ 10 WHEELER
☐ SUPERDUMP ☐ FLAT BED
☐ SUPERTEN

COMPANY LOADING MATERIAL: K.D.W

COMPANY RECEIVING MATERIAL: Potreo Landfill

POINT OF ORIGIN: Automall Pkwy

DESTINATION: Potrero Hill Ln

CITY: Vallejo, CA

CITY: Suisun City

SCHEDULED START TIME: 7:00

MATERIAL: Dirt

NO.	SCALE TAG NO.	WEIGHT	LOADING TIME ARRIVE	LOADING TIME LEAVE	FOR OFFICE USE ONLY STAND BY	UNLOADING TIME ARRIVE	UNLOADING TIME LEAVE	FOR OFFICE USE ONLY STAND BY	COMMENTS/STAND BY REASON
1	91-01611865	14.28	6:50	8:45	-	9:15	9:35		Waiting to load
2	-01611952	13.16	10:08	10:35	-	11:08	11:25	-	1 HR. 45 MIN
3	-1612036	10.43	12:00	12:29	-	1:05	1:20		→ No more
4			2:10	Back					dirt
5									
6									
7									
8									
9									
10					2				
11				12					
12									
13									
14									
15									700-120+40=7.0
16									8.0 hr min
17									

START TIME | STOP TIME | DEDUCT TIME | TRAVEL TIME

DRIVER'S SIGNATURE

TRUCK FINISHED ☐ LOADED ☐ UNLOADED

RECEIVED BY: Thelina Flores

TIME ☐ AM ☐ PM

TOTAL HOURS	
TOTAL TONS	37.87
TOTAL LOADS	
TOTAL BRIDGE	@
TOTAL CHARGES	$

* Attorney's Fees: In the event the parties hereto become involved in litigation arising out of this contract, or the performance or breach thereof, the court in such litigation, or in a separate suit, shall award reasonable costs, expenses and attorney's fees to the prevailing party. The court shall not be bound by any court fee schedule, and may, in the interest of justice, award the full amount of costs, expenses and attorney's fees incurred in good faith." All bills due and payable by the 25th of the month. 1.5% per month charged on past due accounts.

Appendix M-6

Phase I ESA- 160-acre Project Site

PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT

Scotts Valley FTT Project, Vallejo, Solano County, California

Prepared for: Scotts Valley Band of Pomo Indians

October 31, 2024

acorn environmental

Executive Summary

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared by Acorn Environmental in conformance with the Bureau of Indian Affairs (BIA) guidelines (602 DM Chapter 2) and the scope and limitations of the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21 for four parcels totaling approximately 160.8-acres (Subject Property) located in the City of Vallejo, Solano County, California (identified as Solano County Assessor's Parcel Numbers (APNs) 182-020-080, 182-020-010, 182-020-020, and 182-010-010). The Subject Property is largely undeveloped open space with a small portion developed with horse stables. No dwelling structures, commercial/retail operations, or industrial activities were noted. The Subject Property boundaries are noted in **Figures 1, 2,** and **3**.

This Phase I ESA was requested pursuant to a fee-to-trust application by the Client/User and to be used by the BIA during the trust conveyance process. Owner/User-Provided information and historical physical setting resources reviewed indicated the Subject Property was historically used for cattle grazing and animal husbandry. The eastern parcels are noted as containing historic residential dwellings.

No indication or evidence of previous, ongoing or the material threat of a hazardous material or petroleum hydrocarbon release was detected during the investigation and implementation of this Phase I ESA. The Subject Property was not listed in any of hazardous materials databases queried.

DATA GAPS

This Phase I ESA has been prepared in conformance with ASTM Standard Practice E 1527-21. There were a few minor data gaps associated with historical information sources. However, a combination of other data sources was available such that no significant data gap existed, and the historical research objectives were achieved. There were no data gaps that significantly affected the ability of Acorn Environmental to identify recognized environmental conditions associated with the Subject Property. Limitations and exceptions are discussed in Sections 1.4 and 5.1.

FINDINGS

This Phase I ESA revealed no evidence of historical or current recognized environmental conditions, or *de minimis conditions*, in connection with the Subject Property pursuant to the ASTM Practice E1527-21.

RECOMMENDATIONS

Records review, database searches, previously prepared Phase I ESAs, a 2024 site investigation, and interviews failed to identify any recognized environmental conditions in connection with the Subject Property. Therefore, no further hazardous materials investigations of the Subject Property are recommended.

Table of Contents

Scotts Valley Fee-to-Trust Property, City of Vallejo, Solano County, CA

Phase I Environmental Site Assessment

TABLES

FIGURES

APPENDICES

Section 1 | Introduction

1.1 LOCATION AND LEGAL DESCRIPTION

The Subject Property is located within the City of Vallejo in Solano County, California. The Subject Property, as noted in **Figure 1** and **Figure 2**, is located in Section 32, Township 4 North, Range 3 West and Section 5, Township 3 North, Range 3 West as depicted on the Mount Diablo Meridian U.S. Geological Survey (USGS) 7.5' quadrangle map. An aerial photograph of the Subject Property is shown in **Figure 3**. The Subject Property, totaling approximately 160.8 acres, is located within Solano County APNs 182-020-080, 182-020-010, 182-020-020, and 182-010-010.

1.1.1 Subject Property Characteristics and Current Use

The Subject Property is undeveloped except for several unpaved ranch roads and a horse boarding facility characterized by an assemblage of wooden structures that serve to corral the horses and other animals. Horses and cattle currently graze on the Subject Property. Numerous trailers, vehicles, and personal items are located in the vicinity of the horse boarding facility. No dwelling units or commercial/industrial activities are noted.

Several utility easements for electricity transmission lines are located within the Subject Property, including an approximately 22-acre easement along the western boundary, and water pipelines.

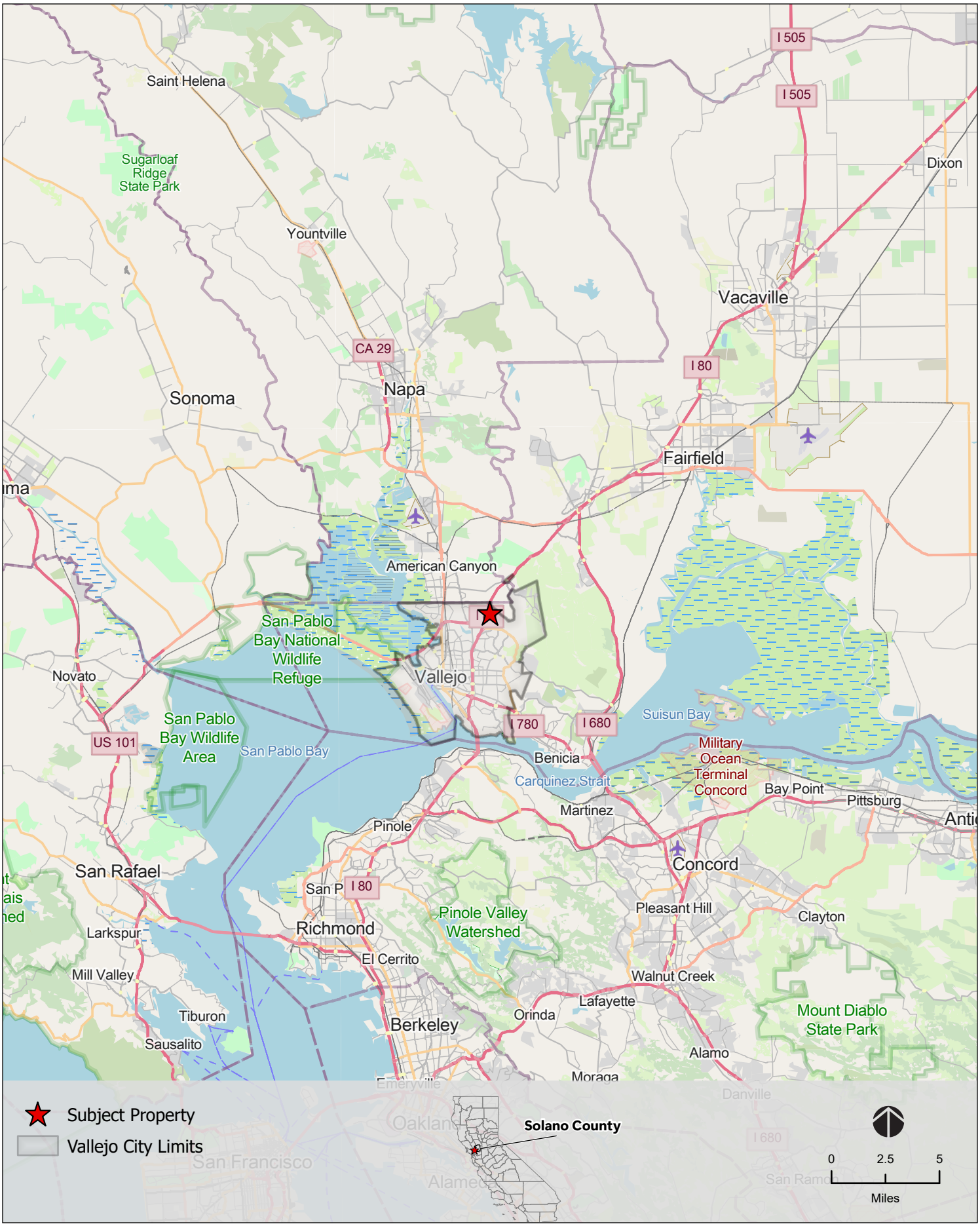
1.1.2 Current Use of Adjoining Properties

The parcels surrounding the Subject Property are undeveloped lands with commercial development to the south across Columbus Parkway. Interstate 80 is located to the west of the Subject Property with a paved bike trail adjacent to the property line. An electrical utility substation is located immediately east of the Subject Property along Columbus Parkway. No industrial activities are noted directly adjacent to Subject Property boundaries.

1.2 PURPOSE

This Phase I Environmental Site Assessment (Phase I ESA) has been prepared in conformance with Bureau of Indian Affairs (BIA) guidelines (602 DM 2) and the American Society for Testing and Materials (ASTM) Standard Practice E 1527-21, which specifies the appropriate inquiry requirement for the innocent landowner defense under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the U.S. Environmental Protection Agency (EPA) (40 CFR 132) All Appropriate Inquiry (AAI) regulations (ASTM, 2021). According to AAI standards, the objective of the inquiry is to identify conditions indicative of releases or threatened releases of hazardous substance, pollutants, contaminants, petroleum and petroleum products, and controlled substances to the Subject Property.

The purpose of this Phase I ESA is to identify Recognized Environmental Conditions (RECs), as defined by Section 1.1.1 of ASTM E 1527-21, which may affect future uses or pose a threat to site occupants of the Subject Property.



Map data © OpenStreetMap contributors, Microsoft, Facebook, Inc. and its affiliates, Esri Community Maps contributors, Map layer by Esri; Acorn Environmental, 10/30/2024

Figure 1

Regional Location

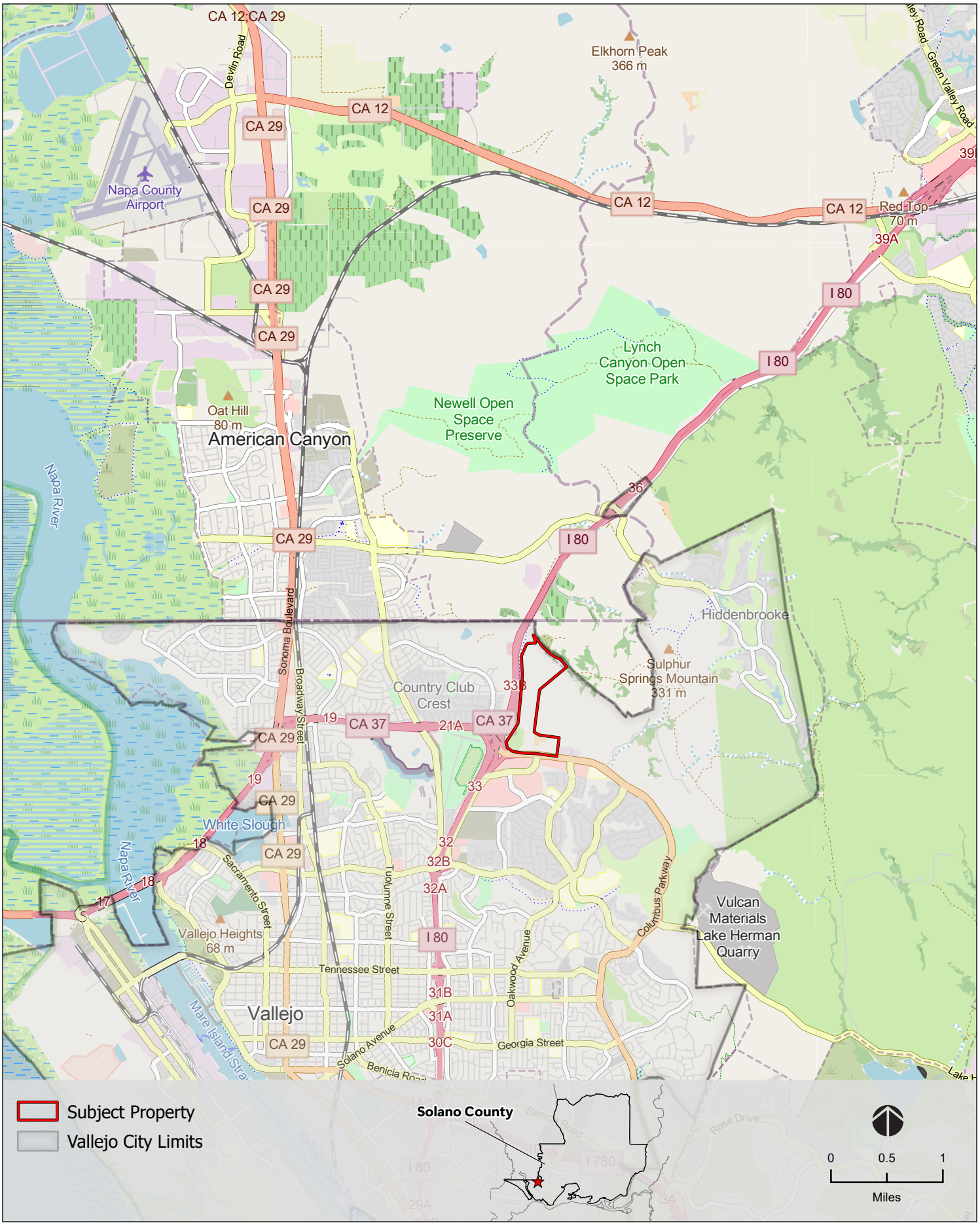


Figure 2
Site and Vicinity

Esri Community Maps Contributors, County of Solano, California State Parks, © OpenStreetMap, Microsoft, Esri, TomTom, Garmin, SafeGraph, GeoTechnologies, Inc, METI/NASA, USGS, Bureau of Land Management, EPA, NPS, US Census Bureau, USDA, USFWS, Google Earth; Google Earth, 8/22/2023; Acorn Environmental, 11/1/2024

Figure 3
Aerial Photograph

The term REC refers to the presence or likely presence of any hazardous substances or petroleum products on a property under conditions that indicate an existing release, a past release, or a material threat of release of any hazardous substances or petroleum products within a property into structures or the ground, groundwater, or surface water. The term REC is not intended to include de minimis conditions that generally do not present a material risk of harm to public health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Historical Recognized Environmental Conditions (HREC) refers to an environmental condition, including a past release of any hazardous substance or petroleum product that has since been remediated, which in the past would have been considered a REC; and the term Controlled Recognized Environmental Conditions (CREC) refers to hazardous substance releases that have been partially addressed through remediation but where some contamination remains in place under certain risk-based restrictions or conditions. Evaluation for HRECs and CRECs are included in this Phase I ESA.

The term *de minimis* condition is defined as "a condition related to a release that generally does not present a threat to human health or the environment and that generally would not be the subject of an enforcement action if brought to the attention of appropriate governmental agencies. Conditions determined to be *de minimis* are not RECs nor CRECs."

1.3 SCOPE OF WORK

Acorn Environmental was contracted by the Tribe to conduct a Phase I ESA in conformance with BIA guidelines (602 DM 2) and ASTM Standard Practice E 1527-21. As scoped, this Phase I ESA includes the following tasks:

- Review of previously prepared environmental documentation/ESAs for the Subject Property,
- Site reconnaissance inspection and visual reconnaissance of the Subject Property and adjacent properties to document the setting and identify potential sources of contamination,
- Review of relevant database listings of hazardous material sites, waste generators, and underground storage tanks (UST),
- Review of historical records and physical setting information for the Subject Property and surrounding area to identify past land use activities and hydrogeologic conditions and to evaluate the risk associated with identified activities,
- Interviews and questionnaires with owners, operators, occupants, and/or local government officials with knowledge of current and historical uses of the Subject Property,
- Report documentation to indicate findings, data gaps, conclusions, and recommendations, if needed.

Physical testing of soil or groundwater is not within the scope of this Phase I ESA. Neither testing for asbestos-containing building materials nor lead-based paint surveys is included as part of this assessment.

1.4 ASSUMPTIONS, DEVIATIONS, LIMITATIONS, AND EXCEPTIONS

This Phase I ESA is prepared through a best-effort collection and interpretation of readily available information prepared consistent with the industry standards for completion of a Phase I ESA.

Acorn Environmental made the following assumptions in the preparation of the Phase I ESA:

- Groundwater Flow Direction – direction of groundwater flow was assumed based on information obtained (EDR report), topography, and previously prepared technical studies. The actual flow of localized groundwater may be influenced by factors beyond the scope of this assessment. Subsurface investigation would be necessary to determine site-specific flow direction.
- Regulatory Agency Information –all information provided by EDR, CalEPA, and local records regarding the regulatory status was considered to be complete, accurate, and current.
- Questionnaire/Interviews –all information provided through questionnaires and interviews was considered to be complete, unbiased, and provided in good faith.

No Phase I ESA can completely eliminate uncertainty regarding the potential for RECs in connection with a property, nor can it eliminate future hazards. Conformance of this Phase I ESA with ASTM Standard Practice E 1527-21 will reduce, but not eliminate, uncertainty regarding the potential for RECs in connection with the Subject Property. While every effort has been made to discover and interpret available historic and current information regarding the Subject Property within the time available, the possibility of undiscovered contamination remains.

Acorn Environmental, as an impartial and independent contractor, has completed this Phase I ESA in accordance with ASTM E 1527-21 and in accordance with the prevailing standard of care for completing such assessments at this time. Acorn Environmental shall not be subject to any express or implied warranties whatsoever. There are no special terms or contractual conditions for this Phase I ESA. There are no limiting conditions or deviations from the ASTM E 1527-21 standards in the preparation and no client/User-imposed constraints.

Any data gaps are listed in **Section 5.1**.

Section 2 | Interviews and User Provided Information

Section 2 presents a summary of the information on the Subject Property and surrounding area provided to Acorn by the Owner/User via standard property questionnaires, previously prepared site documentation, and interviews.

2.1 USER/OWNER QUESTIONNAIRE AND OWNER PROVIDED INFORMATION

The Owner questionnaires, included in **Appendix G**, were sent on October 29, 2024 to representatives of the parcel owners and completed by Casey Spanish, Representative of the Owners of APN 182-010-010, on October 30, 2024 and by Robert Delgado, Representative of the Owners of APNs 182-020-080, 182-020-010, and 182-020-020 on October 31, 2024. The questionnaires were prepared consistent with ASTM E 1527-21, and also requested the following documents, if available, from the Owners:

- Title reports
- Previous environmental site assessments or environmental compliance audit reports
- Environmental permits or hazardous waste generator notices/reports
- Registrations for aboveground or underground storage tanks
- Location of septic systems, oil wells, monitoring wells, or water wells
- Registrations for underground injection systems
- Material Safety Data Sheets;
- Community Right to Know Plans or Safety, Preparedness, and prevention Plans; Spill Protection, Countermeasures, and Control Plans
- Hazardous Material Business Plans
- Geotechnical studies or hydrological studies
- Notices or other correspondence from any government agency relating to past or current violations of environmental laws concerning the Property or relating to environmental liens encumbering the Property
- Risk assessments
- Recorded Activity Use Limitations
- Proceedings regarding hazardous substances and petroleum products including any pending, threatened or past: litigation; administrative proceedings; or notices from any governmental entity regarding possible violations of environmental laws or other possible liability related to hazardous substances or petroleum products.

Representatives of APN 182-010-010 provided Acorn with several previously prepared site-specific documents associated with the submitted Fee-to-Trust application. This documentation includes the following previously prepared Phase I ESAs; a 2005 Environmental Site Assessment – Carlson Property, prepared by Walle-Kuhn and Associates (Wallace-Kuhn, 2005), a 2015 Phase I ESA – Scotts Valley, prepared by Analytical Environmental Services (AES) (AES, 2015), and a 2023 Phase I ESA – Scotts Valley Band of Pomo Indians Fee-to-Trust Project by AES (AES, 2023). Additional documentation regarding 2024

soil testing and soil disposal activities was additionally reviewed. Relevant information and historical reference information from these reports were used in this Phase I ESA where appropriate.

The representatives had no knowledge of any environmental liens, land use restrictions, or recognized environmental conditions associated with the Subject Property.

2.1.1 Specialized Knowledge

No specialized knowledge or actual knowledge that is material to recognized environmental conditions in connection with the Subject Property was provided by the Owner questionnaires.

2.2 TITLE RECORDS, ENVIRONMENTAL LIENS, ACTIVITY AND USE LIMITATION

No title company or professional was engaged by the client or Acorn to review recorded land title records and lien records. Title documentation has been provided to the BIA through the ongoing Fee-to-Trust application.

2.3 PROPERTY REPRESENTATIVE INTERVIEWS

Acorn Environmental interviewed Subject Property representative Robert Delgado who provided access to the Subject Property during the October 29, 2024 site reconnaissance. Mr. Delgado indicated that APNs 182-020-080, 182-020-010, and 182-020-020 have been used as a horse boarding operation and no other operations or activities occur on the site.

Per conservation, the Owners have no knowledge of industrial uses, automobile repair activities, or use of underground storage tanks (USTs) or aboveground storage tanks (ASTs) at the Subject Property. The structures on the Subject Property associated with the Horse Boarding facility are maintained by a tenant of the Owner of APNs 182-020-080, 182-020-010, and 182-020-020 (Delgado, 2024)

Section 3 | Site Reconnaissance

3.1 OBJECTIVE

The objective of the site reconnaissance is to identify the occurrence of potential current or historic hazardous materials involvement within or in the vicinity of the Subject Property. Signs of possible hazardous materials or petroleum involvement would include any indications of USTs existing on the Subject Property; stained soils and/or unusual odors originating from the Subject Property; indications of any excavation or removal of soils, including patched asphalt and large debris piles; and other obvious signs of hazardous materials involvement.

3.2 SITE OBSERVATIONS

David Sawyer (environmental scientist, Acorn Environmental) conducted a site reconnaissance inspection of the Subject Property and a visual reconnaissance of adjacent properties on October 29, 2024. All accessible portions of the Subject Property were observed by vehicle and a pedestrian survey. **Appendix E** provide photographs that show the site conditions at the time of the site visit. Site observations are summarized in **Table 1**. Notable features and environmental conditions are summarized below and on **Figure 4**:

- The Subject Property is partially developed with a Horse Boarding facility on APNs 182-020-080, 182-020-010, 182-020-020. The facility consists of irregular stables erected from scrap wood, plywood and aluminum materials. No footings or foundations were noted. APN 182-010-010 is an undeveloped open space.
- Cattle and Horses were noted grazing on the Subject Property.
- Approximately four vehicles and twenty trailers are parked in proximity to the Horse Boarding facility. Three Conex storage boxes are noted. These vehicles and trailers are in various operational condition.
- Three empty 100 lb. propane tanks were noted.
- Various empty containers were noted in the Horse Boarding facility. These containers were filled with trash and did not contain paint or other hazardous material.
- Trash piles containing wood, tires, and general refuse are located in the Horse Boarding facility.
- Three asphalt roof mixers are noted with tar buckets and associated mixing containers. No evidence of staining was noted under the mixers.
- No stained soil, distressed vegetation, or unusual odors were noted during the site reconnaissance.
- A pole mounted electrical line is located adjacent to Columbus Parkway with a transformer located on one pole. No stains are noted.
- Two regional electrical transmission lines run within easements on the Subject Property. These lines are located atop steel structures within the western and eastern portions of the Subject Property.
- Evidence of historic pit mining was noted. Recent soil removal was noted adjacent to a historic pit mine.
- Adits/exploratory tunnels were found within APN182-010-010 with a maximum depth of approximately 15 feet.

- No hazardous substances or petroleum product usage or storage was noted on the Subject Property or adjoining properties during the site reconnaissance.

3.1 ADJACENT PROPERTIES OBSERVATIONS

A survey of adjacent properties was performed to the extent possible without trespassing during the October 29, 2024, site visit. The purpose was to identify land uses of adjacent properties and determine if the current land use of the adjacent properties would affect the current and/or future planned use of the Subject Property. Conditions observed on the adjacent land uses are described below.

- North: Private and publicly owned (City of Vallejo) undeveloped open space.
- South: Columbus Parkway to the immediate south. Commercial development across the roadway including auto dealerships and big box stores.
- West: Interstate 80 to the immediate west. Residential and commercial development within the City of Vallejo adjacent to the western edge of Interstate 80.
- East: Undeveloped open space and a PG&E electrical substation along Columbus Parkway.

Observations of adjoining-property uses do not indicate RECs to the Subject Property.

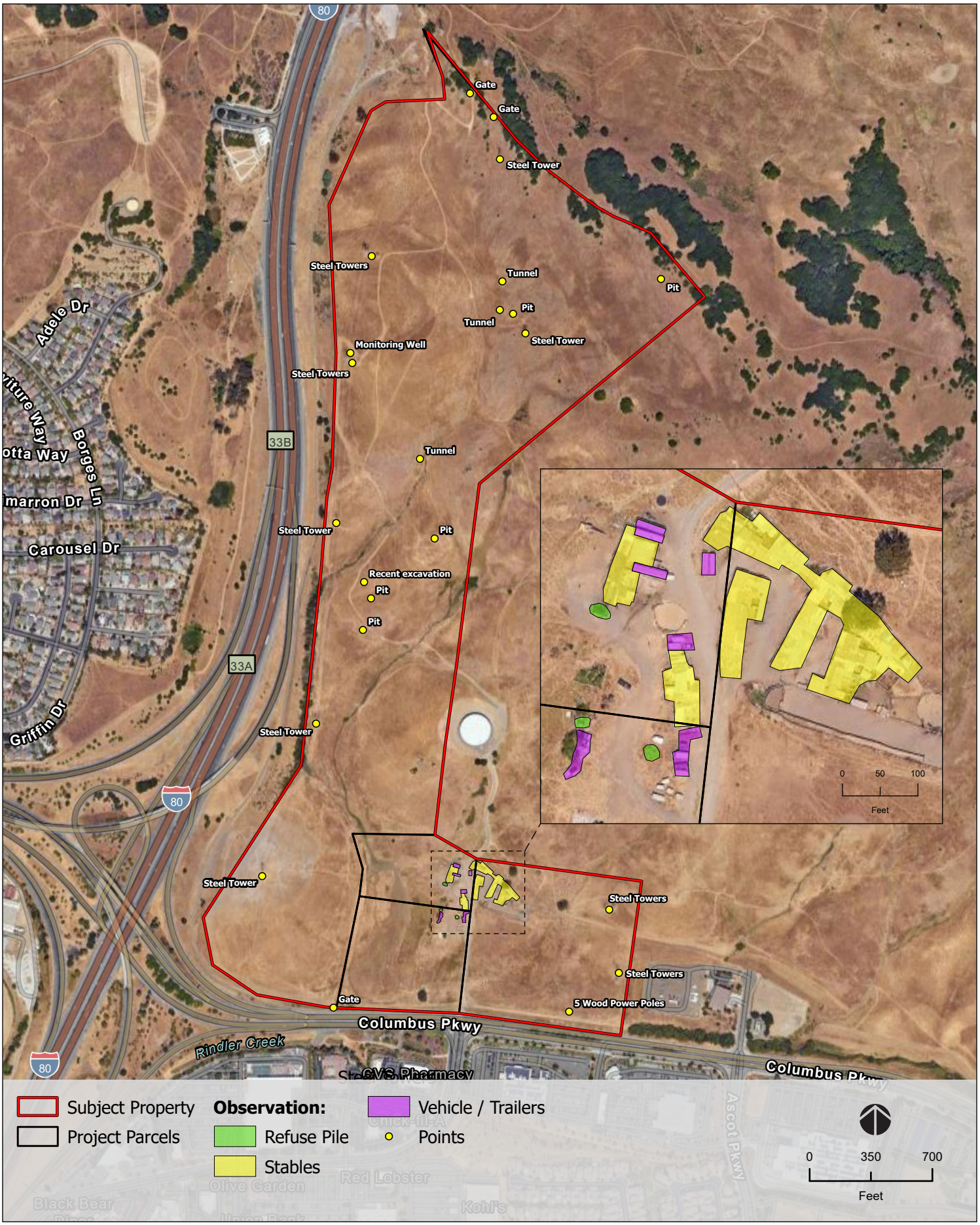


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Figure 4
Site Observations

TABLE 1: SITE OBSERVATIONS

Site Settings	Observations
Current Uses of Property	Cattle grazing/Animal Husbandry
Past Uses of Property	Rural residential, mining, cattle grazing
Current Uses of Adjacent Property	North: Open Space
	South: Columbus Parkway – Commercial Development
	East: Open Space/Public Utilities
	West: Interstate 80
Current/Past Uses in the Surrounding Area	Cattle Grazing/Animal Husbandry; open space; commercial; residential
Geologic, Hydrogeologic, Hydrologic, and Topographic Conditions	Subject Property sloping steeply to the south towards Columbus Parkway. Rock outcropping with various pits and tunnels associated with mining exploration within the northern section of Property. Seeps and drainage swales noted with water flowing to the south.
General Description of Structures	Horse stables erected with scrap wood, plywood and aluminum. Structures are in poor condition and are used only for stabling animals. No noted residential dwellings.
Roads	Gravel and dirt internal roads leading from gate at Columbus Parkway. No public roads on Subject Property and all access points area at locked gates. Access easement within southern portion of property to City of Vallejo water storage tank.
Potable Water Supply	Connection to municipal water system provides domestic water to eastern parcels. Water line noted in access roadway from Columbus Parkway
Sewage Disposal System	No disposal system noted
Waste Removal Services	No evidence of contracted waste removal.
Possible Hazardous Substances and Petroleum Products in Connection with Identified Uses	No substances or petroleum products noted
Storage Tanks and Associated Piping	Three 100 lb. propane tanks were noted in the proximity of the roofing asphalt mixers in the Horse Boarding area. No other fuel tanks were noted.
Odors	No strong, pungent, or noxious odors were observed.
Pools of Liquid	No pools or liquid were observed.
Drums (5 gal to 55 gal containers should be described)	Various empty 5-gallon, 10-gallon, and 65-gallon plastic buckets/drums were noted filled with trash in the Horse Boarding facility. No drums or buckets were filled with marked materials. Four pallet plastic water tanks were noted in the Horse Boarding area.
Potential Hazardous Substances and Petroleum Products Containers	No containers were observed
Unidentified Substance Containers	Tar buckets were noted adjacent to the roofing asphalt mixers in the Horse Boarding area. These buckets were filled with hardened tar. No evidence of spilling was noted.
Polychlorinated Biphenyls (PCB)	Electrical service provided via a pole mounted transformer near the Columbus Parkway access point. Transformer is dated however no signs of leaking or stains were noted.
Pits, Ponds, or Lagoons	No pits or lagoons were observed.
Stained Soil or Pavement	No stained soil or pavement was observed.
Stressed Vegetation	No stressed vegetation was observed.

Solid Waste	Windblown trash noted on the Subject Property. Minor amounts of solid waste noted in the vicinity of the Horse Boarding facility. Approximately 35 tires were noted in piles within the Horse Boarding facility.
Waste Water	No wastewater discharge or standing pools were observed.
Wells	No onsite groundwater well observed. A monitoring well noted along the western border of the site under electrical lines.
Septic System	No septic systems observed.

Section 4 | Records Review

This section summarizes the records review findings for the Subject Property and for adjoining and surrounding properties, including current use and development, physical setting, historical uses, and regulatory agency and database records.

4.1 PHYSICAL SETTING

The Subject Property is undeveloped open space with a temporary horse boarding facility located within APNs 182-020-080, 182-020-010, 182-020-020. The structures housing the horse boarding facility are scrap board and plywood structures with no permanent footings or flooring. The Subject Property is steeply sloped from the north to the south towards Columbus Parkway with elevations ranging from 800 ft amsl in the northwest to 130 feet amsl in the southeastern corner. The southern portion of the Subject Property is semi-level along the southern boundary. Regional access to the Subject Property is provided by Columbus Parkway, which runs in a general east-west direction directly to the south of the Subject Property. Interstate 80 is located to the west of the Subject Property; however no direct access points are noted. (**Figure 1**). Direct access to the Subject Property is via two located gates along Columbus Parkway and via a private gate from the adjacent property to the north.

Zoning designations on the Subject Property were reviewed through information provided by the City of Vallejo. The parcels are zoned for Parks, Recreation, and Open Space, Regional Commercial (City of Vallejo, 2024).

PG&E provides electrical and natural gas services to properties in the vicinity of the Subject Property. PG&E transmission lines and associated easements for PG&E traverse the property from north to south along the western and eastern property lines. Water service to the horse boarding facility is provided by the City of Vallejo. No connections to municipal wastewater services were noted.

The dominant soils on the Subject Property are Toomes very stony loam, Dibble clay loam, and Clear Lake clay. The loams are both well-drained, while the clay is poorly drained. Toomes very stony loam and Clear Lake clay both have very slow infiltration rates, and Dibble clay loam has a slow infiltration rate (EDR, 2024). A number of ephemeral drainages have been mapped and classified by the United States Fish and Wildlife (USFWS) National Wetlands Inventory (NWI) within the Subject Property (USFWS, 2024).

The Subject Property is located in Flood Zone X, which is an area of minimal flood hazard. Zone X is identified by FEMA as those areas located outside the Special Flood Hazard Area and above the elevation of a 0.2-percent-annual-chance flood (**Appendix H**; FEMA, 2014).

According to the EDR report (**Appendix A**) and California Department of Water Resources (DWR, 2024) there are no noted active wells within a 1-mile radius of the Subject Property. A municipal water system on and in the vicinity of the Subject Property (City of Vallejo) provides domestic and irrigation water to the Subject Property and surrounding parcels in the City. A large water storage tank, owned by the City of Vallejo is located adjacent to the Subject Property, and two buried 24-inch water transmission mains currently cross the Subject Property.

4.2 HISTORICAL USE INFORMATION

The historic use of the Subject Property and adjoining properties was compiled through review of historical sources and reasonably ascertainable information pertaining to the Subject Property. Historical sources reviewed by Acorn Environmental included:

- Aerial photographs obtained from EDR or other public sources dated 1937, 1947, 1952, 1958, 1963, 1968, 1974, 1982, 1993, 2006, 2009, 2012, 2016, and 2024. Aerial photographs were of varying clarity (**Appendix B**).
- Sanborn® Fire Insurance maps report obtained from EDR indicated the Subject Property was unmapped (**Appendix D**).
- Topographic maps, obtained from EDR, included the 1896, 1901, and 1940 Carquinez Strait, the 1898 and 1901 Karquines, 1902 Napa, 1947 Port Chicago, as well as the 1950, 1951, 1968, 1980, 2012,2015, and 2018 Benicia maps (**Appendix C**).
- Current and historical tax assessor documents provided by EDR and Solano County.
- Pertinent information provided through questionnaires/interviews with the User/Owner of the Subject Property, and others.

The historical resources reviewed during the preparation of the Phase I ESA are in general accordance with the requirements of ASTM 1527-21.

EDR's Sanborn report indicated that there is no coverage of the Subject Property, which is a minor data gap.

The following subsections provide the findings of the historical review.

4.2.1 Subject Property

Historical aerial images and topographic maps offer detailed review of previous land uses on the Subject Property. The topographic maps between 1896 and 1902 indicated a single structure in the southern portion of the Subject Property. In the 1937 photograph two structures area note in the southcentral portion of the Subject Property with agricultural operations noted in the immediate vicinity. The remainder of the Subject Property is undeveloped. The 1940 topographic map notes an increase in structures in the south with the development of the transmission line along the western boundary. The eastern transmission lines are first noted on the 1947 aerial and the 1951 topographic map. Mining activities are noted between 1947 and 1952. These areas of mining activity are not noted as increasing in areas of disturbance in later images or maps. The 1993 aerial photograph notes the removal of most structures associated with the residential development in the southern portion of the Subject Property. The 2006 aerial photograph first notes the development of the Horse Boarding facility.

No visual clues, indicating possible recognized environmental conditions, were noted via the historic sources on the Subject Property.

4.2.2 Adjoining and Surrounding Properties

The following is a summary of the historical use of the adjoining and surrounding properties based on Acorn's review of the historical sources during this study.

North: Undeveloped open space with a rural development (residential/ranching) noted at a distance.

South: Adjacent roadway noted on all aerials and topographic maps. Commercial development to the south of Columbus Parkway was first noted on the 1993 aerial with increased development to present.

East: Open space noted until 1993 with the development of the City of Vallejo water storage tank on the adjacent property. PG&E substation and City of Vallejo Fire Station noted along Columbus Parkway on 2006 aerial.

West: Adjacent roadway noted on all aerials and topographic maps. Roadway noted as Highway 40 between 1942 and 1951. Interstate 80 noted from 1968 to present. Fairground and residential development to the west of Interstate 80 noted on the 1968 aerial with increase in development between 1993 and present.

No RECs were identified based on the historical use of the adjoining and surrounding properties.

4.3 REGULATORY ENVIRONMENTAL RECORDS REVIEW

This section summarizes sources of environmental records in which the Subject Property is located. These sufficiently useful, accurate, and complete sources of environmental records pertaining to the Subject Property was reasonably ascertainable and were obtained pursuant to good commercial and customary practices.

4.3.1 Regulatory Agency Database Search

The regulatory agency database search was conducted by EDR on October 28, 2024, a computerized search firm that uses a geographic information system to plot locations of known storage tank sites and known sites of hazardous materials generation, storage, and/or contamination within the ASTM approximate minimum search distances. Although a site may be listed within a regulatory agency database search, the listed site may not currently be contaminated or affect the environmental quality of the Subject Property and therefore be considered a REC. The regulatory agency database search is only as accurate as the data and date the data entered into the regulatory agency-maintained database was last updated. If not reported to the appropriate regulatory agency, installation of USTs or hazardous materials releases would not be listed on the regulatory agency databases searched.

The complete list of reviewed regulatory agency databases, search distances, and results is provided in the Map Finding Summary section of the EDR radius map report included as **Appendix A.** The Subject Property is not listed in any hazardous materials databases queried by EDR. The EDR Report provided searches of the local Certified Unified Program Agency (CUPA), the Solano County Environmental Health Department. No Solano County CUPA documentation was found that indicates current or past use of hazardous materials on the Subject Property.

Ten listed site is located with ASTM standard search distances. All listed sites are located down gradient of the Subject Property. Information on pertinent listed cases on and in the vicinity of the Subject Property is provided in **Table 2**. No unmapped or orphan sites were listed in the EDR radius report (**Appendix A**).

TABLE 2: DATABASE LISTINGS

Listed Site	Regulatory Databases	Finding
SUBJECT PROPERTY		
Subject Property APNs- 182-020-080, 182-020-010, 182-020-020, and 182-010-010	NA	**NOT A REC**
SURROUNDING PROPERTIES		
Vallejo Toyota 1001 Admiral Callaghan Lane/ 201 Auto Mall-Columbus Parkway (Approximately 300 feet S)	AST, RCRA-SQG, HWTS, HAZNET, CERS, FINDS, ECHO, LUST, SWEEPS UST, Cortese, Hist Cortese	Auto dealership and maintenance facility located to the south of Columbus Parkway. LUST noted on the site with SRWQCB assessment oversight. Remediation activities included the removal in 1998 of a 4,000-gallon unleaded fuel tank, a 3,000-gallon diesel fuel tank, a 1,000-gallon waste oil tank, a 550-gallon oil tank, and a 550-gallon antifreeze tank. Contamination was noted at 14 feet bgs with water table at 6.5 feet bgs. Directional groundwater flow is to the west-southwest away from the Subject Property. Case closure with the SRWQCB was issued in July 1998. **NOT A REC**
Vallejo Corners Dry Cleaners 950 Admiral Callaghan Lane (Approximately 2000 feet SE)	CPS-SLIC, CERS	Soil investigation for halogenated volatile organic compounds (HVOC) occurred in 1996 beneath a historic dry cleaner site. Dry cleaning activities have occurred at the site since the early 1980's. Low concentration of HVOCs were noted during 1996 sampling, however no groundwater was encountered during investigations. A SRWQCB No Further Action letter was issued in November 1999 for the site. **NOT A REC**
St. Johns Mine 700 St. John's Mne Road (Approximately 1,000 feet E)	SPILLS	Historic mercury mine to the east of the Subject Property with surface and subsurface mining activities between 1870 and WWII. Mine location on top of hill with drainage noted to four drainages. Site Assessment for health and safety evaluations from mercury exposure is noted by SRWQCB since 2017. No direct drainages from the St. Johns Mine property cross the Subject Property. **NOT A REC**

Due to downgradient location and oversight by regulatory agencies these off-site listings are not considered RECs to the Subject Property.

4.3.2 Previous Environmental Studies

Multiple Phase I ESAs have been prepared for parcels within the Subject Property. These Phase I ESAs were reviewed to assist in the investigation of historic site use and where appropriated resource items were incorporated into this document under provisions in ASTM E 1527-21.

The following Phase I ESAs were prepared for APN 182-010-010:

- 2005 Environmental Site Assessment – Carlson Property, prepared by Walle-Kuhn and Associates (Wallace-Kuhn, 2005)
- 2015 Phase I ESA – Scotts Valley, prepared by Analytical Environmental Services (AES, 2015)
- 2023 Phase I ESA – Scotts Valley Band of Pomo Indians Fee-to-Trust Project by Analytical Environmental Services (AES, 2023)

No RECs were noted in any of the previously prepared Phase I ESAs.

The 2023 AES Phase I ESA recommended that the mine tailing piles, located on APN 182-010-010, be tested to ensure that no toxic substances were contained within the piles (AES, 2023). Based off this recommendation, soil sampling of three tailing piles (Tailing A, Tailing B, and Tailing C) was performed in June 2023 for Volatile Organic Compounds (VOCs) and Total Petroleum Hydrocarbons as gasoline (TPHg), polychlorinated biphenyls (PCBs), semi-volatile compounds (SVOCs), organochlorine pesticides (OCPs), organophosphorous pesticides (OPPs), chlorinated herbicides, and CAM 17 metals (AES, 2023a). Laboratory analysis from soil samples detected lead in the sample identified as Tailings C which exceeded the Department of Toxic Substance Control (DTSC) residential screening level of 80 mg/kg. The lead result did not exceed the industrial screening level of 500 mg/kg. Additional sampling of all three Tailings was undertaken by ENGEO in April 2024 for lead and antimony, which was noted in subsequent review of original 2023 laboratory analysis. Results from the second round of soil sampling found that lead concentrations ranged from 4.3 to 63 mg/kg, which do not exceed residential or commercial screening criteria and antimony was not detected above laboratory reporting limits (<0.5 mg/kg) (ENGEO, 2024a).

The stockpile of soil in Tailing C was again tested for appropriate off-site disposal by ENGEO in July 2024. None of the detected concentrations exceed San Francisco Bay Regional Water Quality Control Board Environmental Screening Levels1 (ESLs) for a residential or commercial use exposure scenario with the exception of arsenic; however, arsenic concentrations are within the typical natural background concentration of 11 mg/kg2 (ENGEO, 2024b). On August 25, 2024, approximately 75 cubic yards of soil was excavated from Tailing C and loaded onto trucks for disposal at Potrero Hills Landfill (ENGEO, 2024c). Sampling memos and laboratory results are provided in **Appendix J**.

Excavation areas were noted during the October 2024 site reconnaissance.

4.4 ASTM SIGNIFICANT DATA GAPS

ASTM defines a data gap as a lack, of or inability to obtain, information required by this practice despite good faith efforts by the Environmental Professional to gather such information. Data gaps may result from incompleteness in any of the activities required by this practice, including, but not limited to site reconnaissance (for example, an inability to conduct the site visit), and interviews (for example, an

inability to interview the key site manager, regulatory officials, etc.)

A data gap of greater than five years is present between historical information sources (historic aerials and historic topographic maps) and Sanborn Maps were not available. However, using the historical information sources available and the lack of land use changes, Acorn Environmental believes that a thorough site history could be constructed for the Subject Property. However, a combination of other historical data sources was available such that no significant data gap existed, and the historical research objectives were achieved. There were no deletions from the ASTM Practice E1527-21.

4.5 FINDINGS

Based on information gathered while conducting this Phase I ESA for the Subject Property (Solano County APNs 182-020-080, 182-020-010, 182-020-020, and 182-010-010) in the City of Vallejo, Solano County, California, the following conditions were observed:

- The Subject Property is partially developed with a Horse Boarding Facility. All structures associated with the facility are temporary and do not contain footing or foundations and are constructed of plywood, scrap wood and aluminum. No commercial/retail or industrial activities are occurring on the site.
- A majority of the site is undeveloped and currently used as grazing land for cattle and horses.
- Piles of refuse are located in proximity of the Horse Boarding Facility. Piles contained general trash, tires, wood, and other miscellaneous household waste. No hazardous materials were contained within these piles
- During the site reconnaissance inspection, there was no visible evidence of hazardous materials storage, use, or releases observed within the Subject Property.
- Database and records queries noted no listed cases of hazardous materials involvement on the Subject Property.

Pursuant to ASTM E1527-21, this assessment revealed no RECs in connection with the Subject Property.

4.6 CONCLUSIONS

This Phase I ESA has been prepared in conformance with ASTM Standard Practice E 1527-21 on the Subject Property (Solano County APNs 182-020-080, 182-020-010, 182-020-020, and 182-010-010). Any data gaps, exceptions to, or deletions from, this practice are described in **Section 1.4** and **Section 5.1** of this report.

Based on the site conditions during the October 29, 2024 site reconnaissance inspection, owner/user interview and questionnaires (**Appendix G**), EDR report (**Appendices A, B**, **C**, and **D**), records review, and review of previously prepared Phase I ESAs, no RECs, CRECs, BECs, HRECs, or de minimis conditions, were identified in connection with the Subject Property.

4.7 RECOMMENDATIONS

Based on the findings and the scope of work of this Phase I ESA, no further investigation of the Subject Property is recommended at this time.

Section 5 | Report Authors

The undersigned declare to the best of their professional opinion that they meet the definition of Environmental Professional as defined in §312.10 of 40 CFR 312. David Sawyer, Site Assessor and Report Preparer, assembled this report under the professional supervision of Ryan Sawyer, AICP (American Institute of Certified Planners), who qualifies as an environmental professional (EP) as defined in the ASTM Standard E1527-21, and have the specific qualifications based on education, training, and experience to assess a property of the nature, and setting of the Subject Property. The signature of Ryan Sawyer, AICP appears below and her resume is included in **Appendix F**.

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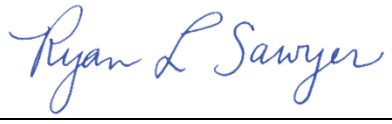

Ryan Sawyer, AICP	10/31/2024
	Date

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These appendices are available upon request. Please contact the following person for a copy:

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