ENVIRONMENTAL SITE INVESTIGATION REPORT

McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California 90404

Prepared for:

Santa Monica-Malibu Unified School District
2828 4th Street
Santa Monica, California 90405

Project Number: SMSD-23-11335
April 27, 2023

Alta Environmental LP, an NV5 Company
3777 Long Beach Boulevard, Annex Building
Long Beach, CA 90807 www.NV5.com

PROFESSIONAL CERTIFICATION

We appreciate the opportunity to provide our services to you. If you have any questions, please contact us at (562) 544-3910.

This report has been prepared by:

Eric Fraske, PE

Senior Engineer/Project Manager

Trevor L. Atkinson, PE

Vice President – Site Assessment and Remediation

David Schack, CAC

Cal/OSHA Certified Asbestos Consultant

92-0219

Vice President – Building Sciences

TABLE OF CONTENTS

TABLE OF CONTENTS

Tables

Figures

Appendices

1. INTRODUCTION

Alta Environmental LP, an NV5 Company (NV5) has prepared this Environmental Site Investigation (ESI) report for the assessment of proposed construction work areas associated with campus upgrades planned for McKinley Elementary School, located at 2401 Santa Monica Boulevard in Santa Monica, California (herein identified as the "Site"). The assessment was completed for the Santa Monica-Malibu Unified School District in accordance with NV5 proposal number SMSD-23-11335 dated January 20, 2023. The objective of the assessment was to assess the recognized environmental conditions identified in NV5's Phase I ESA report dated April, 2022.

2. BACKGROUND

2.1 Site Location and Description

McKinley Elementary School is an approximately 6.50-acre rectangular shaped elementary school site located at 2401 Santa Monica Boulevard in the City of Santa Monica (Figure 1), with approximately 450 students serving transitional kindergarten through fifth grades. The current campus has four educational buildings and 11 portable buildings, as well as play yards and sports fields, staff, visitor parking and programmed and unprogrammed open space. Vehicular access is from Chelsea Avenue, with student drop-off/pick-up occurring on-site. The school campus is bounded by Santa Monica Boulevard and commercial uses to the south, and multi-family uses located to the north across Arizona Avenue, the east across Chelsea Avenue, and west along 23rd Court.

As part of a proposed campus upgrade, the first phase of work will include new building construction, renovation of existing buildings, and new on-campus parking and roadways. A new two-story classroom and administration building will be constructed within the area that currently serves as staff and visitor parking. In addition, renovations of the existing main campus building will include new ground and second floor connections to the main building, new staff and visitor parking lots, and construction of a new on campus drop-off/pick-up lane adjacent to Chelsea Avenue. The area of the proposed construction activities (Site) is shown on the attached Figure 2.

2.2 Previous Investigations

A Phase I Environmental Site Assessment (ESA) of the Site prepared by NV5 in April 2022 identified the following evidence of potential environmental concerns.

- *Regulatory database records and historical records indicate that an drycleaner has operated at the northeast adjoining property located at 2441 Santa Monica Boulevard from at least 1991 to present day. Records indicate that dry-cleaning equipment that utilized perchloroethylene (a chlorinated solvent) was used at this facility. While no violations, leaks, spills, or releases are reported, based on the proximity of this facility to the Site and inherent environmental risk associated with dry-cleaning facilities. These listings are considered to represent a REC.*
- *Based on the age of the buildings on the Site, there is the possibility for lead-based paint (LBP) residues within the shallow soil. Based on the age of historical and current structures on the Site, arsenic, lead-based paint, asbestos, pesticides, and PCBs in caulking may have been historically used at the Site. As a result, there is a potential for these compounds to be present in the shallow soils onsite.*

NV5 recommended conducting a limited Phase II ESA to determine if dry-cleaning operations on the northeastern adjoining property had negatively impacted the Site. Additionally, NV5 recommended a limited Phase II subsurface investigation be conducted in areas of proposed soil disturbance to evaluate shallow soil conditions with respect to the potential chemicals of concern listed above.

3. SITE INVESTIGATION

3.1 Pre-field Activities

3.1.1 Health and Safety Plan

Prior to conducting field work for the project, NV5 prepared a site-specific Health and Safety Plan (HASP) that was implemented per California Occupational Safety and Health Administration (OSHA) California Code of Regulations (CCR) Title 8, Section 5192 requirements. The HASP presented an overview of the scope of work and discussions of potential job hazards that could be encountered during the investigation.

Daily tailgate meetings were held with NV5 personnel and subcontractors at the beginning of each day during the investigation. The plan of the day, potential safety hazards, and site-specific safety procedures were discussed during the tailgate meetings. All field personnel were required to review and sign the HASP before beginning any fieldwork. All NV5 personnel conducting field work onsite have received the OSHA Hazardous Waste Operations training in accordance with 29 CFR 1910.120 and CCR Title 8, Section 5192. The investigation work was completed with no reportable injuries or illnesses.

3.1.2 Utility Clearance and Geophysical Survey

NV5 conducted a geophysical survey (survey) of the Site to independently clear each of the soil boring locations to ensure that buried utilities would not be encountered during soil sampling. On February 11, 2023, NV5's subcontractor, SoCal Locators, surveyed the Site using a combination of electromagnetic induction, magnetometry, and ground penetrating radar.

The proposed boring locations were marked with white spray paint, as required by Underground Service Alert (USA). On February 13, 2023, NV5 notified USA of the proposed sampling activities (USA Notification ID: A230440138-00A). USA then notified the companies and agencies that may have underground utilities in the vicinity to mark their respective utilities on the ground with spray paint so that the utilities could be avoided during sampling.

3.2 Sample Collection and Analysis

Pavement and subsurface soil and soil vapor sampling were conducted at the Site on February 20, 2023. Pavement sampling was conducted by Mr. Tom Jenkins, a State of California licensed Certified Site Surveillance Technician (CSST) under the supervision of David Schack, a State of California Certified Asbestos Consultant (CAC). Soil and soil vapor sampling were conducted by properly trained NV5 staff under the supervision of Eric Fraske, a State of California registered Professional Engineer (PE). Personnel certifications are presented in Appendix A.

3.2.1 Pavement Coring and Sampling

Most of the locations identified for subsurface sampling were overlain by concrete or asphalt pavement. At these locations, coring equipment operated by Strongarm Environmental was used to access the soil beneath the pavement for sampling. Due to the known potential presence of asbestos in pavement, the

cores from each location were collected and submitted to AmeriSci Los Angeles, a NVLAP certified laboratory, for asbestos analysis by EPA Method 600/M4-82-020; updated method 600 R-93/116 (PML).

3.2.2 Soil-Matrix Sample Collection and Analysis

12 shallow soil borings (B1 through B12) were advanced throughout the Site (Figure 3) using direct push drilling equipment or hand tools operated by Strongarm Environmental Field Services, Inc. At each boring, soil samples were collected at depths of 0.5 feet, 2 feet, and 4 feet below ground surface (bgs).

Soil samples were collected directly from the hand auger and transferred into laboratory provided jars or from core samplers lined with acetate tubes, sealed with Teflon® sleeves and plastic endcaps, and labeled with the boring identification number, sample depth, date, and time of collection. Following collection, each sample was placed in a chilled cooler for transport to a California-certified environmental laboratory, Enthalpy Analytical of Orange, California. The details of the soil samples were recorded on a chain-of-custody form including the sample identification, date and time of collection, sample matrix, containers, preservative, requested analyses, sampler's name, couriers used, and responsible laboratory personnel.

The soil encountered during the investigation was logged continuously using the Unified Soils Classification System (USCS) under the supervision of a California PE. The volatile organic vapor concentrations observed during the collection of each soil sample were screened using a photoionization detector (PID) calibrated to 50 parts per million (ppm) hexane. The lithology, PID readings, field observations, and sampling depths of the borings were documented on sampling logs (included in Appendix B).

The soil samples collected from the depths of 0.5 and 2-feet bgs were analyzed for lead, arsenic, PCBs, and pesticides as indicated on the following table. The soil samples collected at a depth of 4 feet bgs, were submitted for archival and future analysis if necessary. Laboratory analytical reports and chain-of-custody documentation for the soil samples are presented in Appendix C.

Soil Borings	Location Description	Laboratory Analysis
B1	Pole Mounted Transformer	PCBs by EPA Method 8082
B2 through B9	Adjacent to Existing Structures	Lead by EPA Method 6010 Arsenic by EPA Method 6020 PCBs by EPA Method 8082 Pesticides by EPA Method 8081
B10 through B12	Paved Parking Lot	Lead by EPA Method 6010 Arsenic by EPA Method 6020 Pesticides by EPA Method 8081

3.2.3 Soil Vapor Sampling

To assess the potential for onsite impacts related to dry-cleaning activities from the adjoining off-site property, NV5 installed temporary soil vapor probes at three locations (SV1 through SV3) on the northeastern portion of the Site (Figure 3).

3.2.3.1 Soil Vapor Probe Installation

Soil vapor probes were installed using direct push technology at three locations. At each location, nested soil vapor probes were installed at the depths of 5 and 15 feet bgs. Soil samples were collected at the depths of 5, 10, and 15 feet bgs at each location to document soil lithology.

Each probe was placed within a one-foot sand pack. One foot of dry granular bentonite was placed on top of each sand pack to preclude the infiltration of hydrated bentonite grout. The boreholes were then grouted between probes and to the surface with hydrated bentonite. Nylaflow® tubing (¼ inch) was connected from the vapor point to the surface. The end of the tubing was labeled with the vapor well number, depth, date and time of construction, and a three-way valve installed to eliminate ambient air diffusion into the well (and to facilitate sample collection).

3.2.3.2 Soil Vapor Sample Collection

Prior to purging or sampling, a shut-in test was conducted to check for leaks in the above-ground sampling train. Following assembly of all above-ground valves, lines, and fittings, the assembly was evacuated to a minimum vacuum pressure of approximately 100 inches of water.

Following the shut-in test and prior to sample collection, each soil vapor probe was purged by removing three purge volumes from each sample point at a sampling rate of 200 ml/minute or less. A single purge volume constitutes the internal volume of the tubing, the void space of the sand pack around the probe tip, and the void space of the dry bentonite in the annular space.

Soil vapor samples were collected into one-liter summa canisters following the removal of the appropriate purge volume. Soil vapor samples were collected at a sampling rate of 200 ml/minute or less. The samples were transported under chain-of-custody protocol to a California Certified Environmental Laboratory, Jones Environmental, Inc. for analysis of VOCs by EPA Method 8260B.

A leak test was conducted at each soil vapor well to determine whether leakage was present. Tracer compounds (n-pentane, n-hexane, isopropanol, and n-propanol) were used at each soil vapor well for analysis by the laboratory. If the tracer compound was detected in the soil vapor sample at a concentration greater than 10 times the laboratory reporting limit, then the sample would be deemed void.

3.2.4 Equipment Decontamination

All sampling equipment was decontaminated with a three-bucket wash consisting of a non-phosphate cleaning solution, tap water, and a final rinse in distilled water.

3.2.5 Soil Boring Abandonment

Following completion of the investigation, the soil boring locations and soil vapor probes were abandoned by removing the vapor probes, backfilling the borings with hydrated bentonite chips, and sealing the surface with similar materials to match the existing surface.

3.2.6 Quality Assurance/Quality Control (QA/QC)

One duplicate soil sample (B7-0.5 DUP), one trip blank (TB), and one equipment blank (EBLANK) were collected for analysis. The duplicate soil sample was analyzed for the same constituents as the primary sample (lead, arsenic, PCBs, and pesticides). The EBLANK sample was also analyzed for lead, arsenic,

pesticides, and PCBs. The TB sample was analyzed for VOCs and fuel oxygenates. One duplicate soil vapor sample (SV2-5 REP) was also collected and analyzed for VOCs.

3.2.7 Investigation Derived Wastes (IDW)

IDW, including equipment decontamination water, soil cuttings, used personal protective equipment (PPE), and sampling supplies, generated during this sampling event was contained (and appropriately labeled) in a single 55-gallon drum, which was temporarily stored on-site pending waste characterization. Subsequent laboratory analysis of the drummed material classified the IDW as non-hazardous waste. The drum was transported to a licensed waste disposal facility by a licensed waste hauler (Belshire Environmental Services, Inc.) for disposal on April 13, 2023. A copy of the waste manifest is presented in Appendix D.

4. INVESTIGATION RESULTS

4.1 Lithology

Soils encountered at the Site generally consisted of silty sands and clayey sands. No significant PID readings, staining, or odors were noted in any of the collected samples. Groundwater was not encountered at any sample location.

4.2 Laboratory Analytical Results

Laboratory analytical reports and chain-of-custody documentation are presented in Appendix C. Tabulated summaries of the PCB, lead and arsenic, and pesticide analytical results for the soil matrix samples are presented on Tables 1, 2, and 3, respectively. A tabulated summary of the VOC analytical results for soil vapor is presented on Table 4.

Laboratory results where analyte concentrations were not detected above the laboratory method detection limit (MDL) are identified as “ND” along with the corresponding MDL. Analytical concentrations detected above the MDL, but below the laboratory reporting limit (RL) are considered estimated values and are reported with a “J-flag” identifier (J).

The analytical results were compared to various regulatory agency published screening levels developed for residential land use scenarios. These screening levels were developed as a general guideline to identify potentially impacted areas. Screening levels should not be considered de-facto cleanup levels.

Concentrations of lead, pesticides, and PCBs in soil were compared to the EPA Region 9 Regional Screening Levels (RSLs) for residential land use (EPA, November 2022) and the Department of Toxic Substance Control’s (DTSC) Human Health Risk Assessment (HHRA) Note Number 3, DTSC-modified Screening Levels (DTSC-SLs) for residential land use (DTSC, May 2022), where applicable.

Concentrations of VOCs in soil vapor were compared to the RSLs and DTSC-SLs for residential and use, divided by a steady state attenuation factor of 0.03 for each analyte, as directed by the DTSC’s Draft Supplemental Guidance Screening and Evaluating Vapor Intrusion (DTSC, 2023).

Concentrations of arsenic in soil were evaluated in accordance with the 2009 *DTSC Arsenic Strategies, Determination of Arsenic Remediation, Determination of Arsenic Cleanup Goals for Proposed and Existing School Sites* as further discussed in Section 4.2.4.

4.2.1 Asbestos in Asphalt Pavement

- Asbestos was not detected in any of the asphalt core samples.

4.2.2 PCBs in Soil

- Aroclor-1260 was detected in the 0.5-foot sample collected at location B1 (0.09 milligrams per kilogram [mg/kg]). This concentration is below the DTSC-SL and RSL for Aroclor-1260 (0.24 mg/kg).
- No other concentrations of PCBs were detected above laboratory method detection limits in any of the collected samples.

4.2.3 Lead in Soil

- Lead was detected in a majority of the analyzed soil samples at concentrations ranging between 7.8 and 25 mg/kg. None of the detected concentrations exceeded the DTSC-SL of 80 mg/kg or the RSL of 400 mg/kg.

4.2.4 Arsenic in Soil

- Arsenic was detected in most of the analyzed soil samples at concentrations ranging between 2.5 to 19 mg/kg. The detected concentrations of arsenic exceeded both the RSL (0.68 mg/kg) and DTSC-SL (0.11 mg/kg) for arsenic. However, it is stated in the DTSC HHRA Note 3 that "*Note that risk-based screening-level concentrations of arsenic in soil are often below naturally occurring (background) concentrations. Consequently, DTSC Human and Ecological Risk Office (HERO) strongly recommends consideration of site-specific background concentrations of inorganic constituents*."
- In accordance with the 2009 DTSC guidance, a statistical analysis of the detected concentrations of arsenic was conducted by an American Board of Toxicology certified toxicologist to determine the upper limit concentration of naturally occurring arsenic in soil at the Site. This statistical assessment is presented in Appendix E. The results of the analysis indicated that the upper bound soil arsenic concentration at the Site was consistent with the 12 mg/kg concentration established by the DTSC in the *HERO Human Health Risk Assessment Note Number 11, Southern California Ambient Arsenic Screening Level.* For sites where arsenic soil concentrations exceed ambient, background concentrations, the DTSC guidance recommends that Risk Control or Risk Management actions be considered to make sure surface soils, or exposed soils, do not contain arsenic at concentrations higher than natural, background concentrations.
- Only the concentrations of arsenic in the 2- and 4-foot samples collected at locations B7 (19 and 16 mg/kg, respectively), B8 (18 and 17 mg/kg, respectively), B10 (18 and 17 mg/kg, respectively), and B11 (13 and 19 mg/kg, respectively) exceeded the DTSC upper-bound arsenic screening level for Southern California soils of 12 mg/kg.

4.2.5 Pesticides in Soil

- A trace concentration of Chlordane-Technical (0.044J mg/kg) was detected in the 0.5-foot sample collected at location B3. This concentration is below the RSL and DTSC-SL for Chlordane-Technical of 1.7 mg/kg.

- A trace concentration of endrin ketone was detected in the 2-foot sample collected at location B3 (0.0024J mg/kg). Endrin ketone is the chemical produced when endrin, a chlorinated hydrocarbon pesticide, is exposed to light. There currently is no RSL or DTSC-SL for endrin ketone. For comparison purposes, the detected concentration of endrin ketone is well below the RSL (19 mg/kg) and DTSC-SL (19 mg/kg) for endrin.
- No other concentrations of pesticides were detected above laboratory method detection limits in any of the collected samples.

4.2.6 VOCs in Soil Vapor

- Concentrations of several VOCs were detected at the three vapor probe locations. The detected VOCs included: 1,2,4-trimethylbenzene (75 to 372 micrograms per cubic liter [µg/m^3]), 1,3,5-trimethylbenzene (26 to 148 µg/m^3), benzene (18 to 751 µg/m^3), bromodichloromethane (29 to 53 µg/m^3), bromoform (10 µg/m^3), chloroform (107 to 163 µg/m^3), dibromochloromethane (15 to 22 µg/m^3), ethylbenzene (31 to 702 µg/m^3), m,p,xylene (148 to 2,540 µg/m^3), n-propylbenzene (15 to 100 µg/m^3), o-xylene (58 to 729 µg/m^3), tetrachloroethene [PCE] (10 to 1,330 µg/m^3), toluene (55 to 5,060 µg/m3), and trichloroethene [TCE] (11 µg/m^3).
- The detected concentrations of benzene (18 to 751 µg/m^3) exceeded both the RSL (12 µg/m^3) and DTSC-SL (3.23 µg/m^3).
- The detected concentrations of bromodichloromethane (29 to 53 µg/m^3) exceeded both the RSL (2.53 µg/m^3) and DTSC-SL (2.53 µg/m^3).
- The detected concentrations of chloroform (107 to 163 µg/m^3) exceeded the RSL (4 µg/m^3). A DTSC-SL for chloroform has not been established.
- The detected concentrations of dibromochloromethane (15 to 22 µg/m^3) exceeded the DTSC-SL (4.33 µg/m^3). An RSL for dibromochloromethane has not been established.
- Four of the seven detected concentrations of ethylbenzene (41 to 702 µg/m^3) exceeded the RSL (37 µg/m^3). A DTSC-SL for ethylbenzene has not been established.
- Three of the six detected concentrations of PCE (10 to 1,330 µg/m^3) exceeded the DTSC-SL (15.33 µg/m^3) and the RSL (367 µg/m^3).
- The single detected concentration of TCE (11 µg/m^3) equaled the RSL (11 µg/m^3). This concentration was below the DTSC-SL for TCE of 67 µg/m^3.
- None of the other detected VOC concentrations exceeded their respective DTSC-SL or RSL.

4.2.7 QA/QC

- The samples were received by the laboratory in good condition, properly preserved, and on ice. Laboratory analysis was conducted within the applicable laboratory method holding times.
- No concentrations of lead, arsenic, VOCs, PCBs, or pesticides were detected above laboratory method detection limits in the equipment blank sample.
- No concentrations of VOCs were detected above laboratory method detection limits in the TB samples.

- Concentrations of lead, arsenic, PCBs, and pesticides detected in the duplicate soil samples (B7-0.5 DUP) were similar to concentrations of lead, arsenic, PCBs, and pesticides detected in the corresponding primary sample (B7-0.5).
- Concentrations of VOCs detected in the duplicate soil vapor sample (SV2-5 REP) were similar to concentrations of VOCs detected in the corresponding primary sample (SV2-5).
- None of the leak check compounds were detected above laboratory detection limits in any of the soil vapor samples.

5. FINDINGS AND RECOMMENDATIONS

Soils at the Site consist primarily of silty sands and clayey sands to the maximum explored depth of 15 feet bgs. Groundwater was not encountered during this assessment.

Asbestos was not identified in any of the collected asphalt pavement samples.

Trace concentrations of PCBs and pesticides were identified in samples collected at two locations; however, all detected concentrations were well below applicable health risk screening levels.

Lead was detected in all collected soil samples; however, none of the detected concentrations exceeded the residential risk screening level for lead in soil.

Arsenic was detected in most collected soil samples; however, only the concentrations detected in the 2- and 4-foot samples collected at locations B7 (19 and 16 mg/kg, respectively), B8 (18 and 17 mg/kg, respectively), B10 (18 and 17mg/kg, respectively), and B11 (13 and 19 mg/kg, respectively) exceeded the DTSC upper-bound arsenic screening level for Southern California soils of 12 mg/kg.

Soil borings B7 and B8 are located adjacent to a bathroom structure. Borings B10 and B11 are located within the parking lot area. NV5 recommends that, following utility safe-off associated with demolition activities, additional step-out sampling be conducted to determine the extent of arsenic impacted soils above health risk screening levels. Once delineated, the impacted soil should be excavated and removed from the Site for disposal.

Concentrations of multiple VOCs in excess of risk screening levels were identified in soil vapor samples collected at both 5- and 15-foot depths at all three soil vapor probe locations. Concentrations of chlorinated solvents (PCE) tended to increase with depth and proximity to the existing adjoining dry-cleaner. However, concentrations of petroleum hydrocarbon (benzene, toluene, ethylbenzene, etc.) related constituents decreased with depth and proximity to the adjoining dry-cleaner.

As the potential sources and extent of soil vapor impacts are unknown, NV5 recommends that additional soil vapor assessment be conducted at the Site to further evaluate the potential risk of vapor intrusion to proposed structures and to assess if mitigation measures are warranted. The additional investigation should focus on not only the footprints of the proposed structures, but also potential preferential pathways for vapor migration such as utility conduits and corridors throughout the Site.

6. WARRANTY

6.1 Warranty

NV5 warrants that the findings and conclusions reported herein were conducted in general accordance with standard industry practices. The conclusions presented in the report are based solely on the

services described herein and not on scientific tasks or procedures beyond the scope of agreed upon services.

The ESI has been developed to provide the client with information regarding apparent indications of recognized environmental conditions relating to the Site. It is necessarily limited to the conditions observed and to the information available at the time of the work. The assessment and conclusions presented herein were based upon the subjective evaluation of limited data. They may not represent all conditions at the subject site as they reflect the information gathered from specific locations. NV5 warrants that the findings and conclusions contained herein have been promulgated in accordance with generally accepted environmental investigation methodology and only for the site described in this report. The findings set forth in this report are strictly limited to the date of the evaluation.

The scope of the ESI was developed specifically to meet the client's stated objectives and the data that was developed may not be suitable for use to satisfy other objectives. Any limitations on the data to meet the client's stated objectives are described in the report.

Due to the limited nature of the work, there is a possibility that there may exist conditions which could not be identified within the scope of the assessment, or which were not apparent at the time of report preparation. It is also possible that the testing methods employed at the time of the report may later be superseded by other methods. The description, type, and composition of what are commonly referred to as "hazardous materials or conditions" can also change over time. NV5 does not accept responsibility for changes in the state of the art, nor for changes in the scope of various lists of hazardous materials or conditions. NV5 believes that the findings and conclusions provided in this report are reasonable. However, no other warranties are implied or expressed.

Analytical data contained in this report is limited to the corresponding sampling location, depth, sampled material, selected range of analyses and laboratory reporting limits. Additional chemical constituents not searched for during the current study may be present in soil, soil gas and/or groundwater at the site.

The location and concentration of contaminants can vary over time due to seasonal water table fluctuations, past disposal practices, the passage of time and other factors.

6.2 Use by Third Parties

This report was prepared pursuant to the contract NV5 has with the Santa Monica-Malibu Unified School District. That contractual relationship included an exchange of information about the subject site that was unique and between NV5 and its client and serves as the basis upon which this report was prepared. Because of the importance of the communication between NV5 and its client, reliance, or any use of this report by anyone other than the Santa Monica-Malibu Unified School District, for whom it was prepared, is prohibited and therefore not foreseeable to NV5.

Reliance or use by any such third party without explicit authorization in the report does not make said third party a third-party beneficiary to NV5's contract with the Santa Monica-Malibu Unified School District. Any such unauthorized reliance on or use of this report, including any of its information or conclusions, will be at the third party's risk. For the same reasons, no warranties, or representations, expressed or implied in this report, are made to any such third party.

7. REFERENCES

7.1 References

Phase I Environmental Site Assessment Report – Will Rogers Elementary School, 2401 14th Street, Santa Monica, California. Prepared for the Santa Monica-Malibu Unified School District. Prepared by NV5. Dated April 15, 2022.

United States Environmental Protection Agency Region IX Regional Screening Level (RSLs) Summary Table. November 2022.

Department of Toxic Substance Control Human and Ecological Risk Office - Human Health Risk Assessment Note Number 3, DTSC-modified Screening Levels. Revised May 2022.

California Department of Toxic Substances Control. Arsenic Strategies, Determination of Arsenic Remediation, Determination of Arsenic Cleanup Goals for Proposed and Existing School Sites. March 21, 2009.

Department of Toxic Substance Control Human and Ecological Risk Office - Human Health Risk Assessment Note Number 11, Southern California Ambient Arsenic Screening Level. December 28, 2020.

San Francisco Regional Water Quality Control Board - Environmental Screening Levels (Rev 2). January 2019.

TABLES

Table 1: PCBs in Soil Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

Sample ID	Compound	PCBs by EPA Method 8082								
		Aroclor-1016	Aroclor-1221	Aroclor-1232	Aroclor-1242	Aroclor-1248	Aroclor-1254	Aroclor-1260	Aroclor-1262	Aroclor-1268
	CAS	12674-11-2	11104-28-2	11141-16-5	53469-21-9	12672-29-6	11097-69-1	11096-82-5	37324-23-5	11100-14-4
	RSLs (mg/kg)	4.1	0.2	0.17	0.23	0.23	0.24	0.24	NE	NE
	DTSC-SLs (mg/kg)	4.0	0.2	0.17	0.23	0.23	0.24	0.24	NE	NE
B1-0.5	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	**0.09**	ND (<0.016)	ND (<0.013)
B1-2	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B2-0.5	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B2-2	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B3-0.5	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B3-2	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.019)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B4-0.5	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.019)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B4-2	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.019)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B5-0.5	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.017)	ND (<0.021)	ND (<0.0064)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B5-2	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.019)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B6-0.5	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B6-2	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B7-0.5	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B7-0.5 DUP	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.019)	ND (<0.018)	ND (<0.021)	ND (<0.0066)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B7-2	2/20/2023	ND (<0.014)	ND (<0.023)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B8-0.5	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B8-2	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B9-0.5	2/20/2023	ND (<0.072)	ND (<0.110)	ND (<0.092)	ND (<0.089)	ND (<0.110)	ND (<0.033)	ND (<0.120)	ND (<0.082)	ND (<0.067)
B9-2	2/20/2023	ND (<0.014)	ND (<0.022)	ND (<0.018)	ND (<0.018)	ND (<0.021)	ND (<0.0065)	ND (<0.024)	ND (<0.016)	ND (<0.013)
B10-0.5	2/20/2023	--	--	--	--	--	--	--	--	--
B10-2	2/20/2023	--	--	--	--	--	--	--	--	--
B11-0.5	2/20/2023	--	--	--	--	--	--	--	--	--
B11-2	2/20/2023	--	--	--	--	--	--	--	--	--
B12-0.5	2/20/2023	--	--	--	--	--	--	--	--	--
B12-2	2/20/2023	--	--	--	--	--	--	--	--	--

NOTES:

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

RSL = Regional Screening Level-Residential Land Use, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use, revised May 2022

NE = No Screening Level Established

ND = Not detected at or above the MDL

"- -" = Not Analyzed

J = Analyte was detected; however, result is an estimated value between the RDL and the MDL

DUP = Duplicate sample

Table 2: Lead and Arsenic in Soils Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

Sample ID	Compound	Metals by EPA Method 6020	
		Arsenic	Lead
	CAS	7440-38-2	7439-92-1
	RSLs (mg/kg)	0.68	400
	DTSC-SLs (mg/kg)	0.11/12*	80
B1-0.5	2/20/2023	--	--
B1-2	2/20/2023	--	--
B2-0.5	2/20/2023	9.9	9.5
B2-2	2/20/2023	9.2	9
B3-0.5	2/20/2023	6.2	25
B3-2	2/20/2023	7.8	7.8
B4-0.5	2/20/2023	6.9	8.8
B4-2	2/20/2023	9.0	8.3
B5-0.5	2/20/2023	9.8	11
B5-2	2/20/2023	9.1	8.6
B6-0.5	2/20/2023	8.7	8.4
B6-2	2/20/2023	10	9.8
B7-0.5	2/20/2023	9.6	10
B7-0.5 DUP	2/20/2023	9.5	9.1
B7-2	2/20/2023	19	13
B7-4	2/20/2023	16	--
B8-0.5	2/20/2023	8.7	8.7
B8-2	2/20/2023	18	13
B8-4	2/20/2023	17	--
B9-0.5	2/20/2023	2.5	9.8
B9-2	2/20/2023	10	9.5
B10-0.5	2/20/2023	10	10
B10-2	2/20/2023	18	13
B10-4	2/20/2023	17	--
B11-0.5	2/20/2023	8.9	8.7
B11-2	2/20/2023	13	12
B11-4	2/20/2023	19	--
B12-0.5	2/20/2023	8.1	9.4
B12-2	2/20/2023	ND (<0.74)	ND (<0.090)

NOTES:

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

RSL = Regional Screening Level-Residential Land Use, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use, revised May 2022

* = DTSC upper bound estimate (95th percentile) for background concentrations in Southern California

ND = Not detected at or above the MDL

"- -" = Not Analyzed

DUP = Duplicate sample

Table 3: Pesticides in Soils Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

Sample ID	Compound	EPA Method 8081A																			
		4,4'-DDD	4,4'-DDE	4,4'-DDT	Aldrin	alpha-BHC	beta-BHC	Chlordane (Technical)	delta-BHC	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan sulfate	Endrin	Endrin aldehyde	Endrin ketone	gamma-BHC	Heptachlor	Heptachlor epoxide	Methoxychlor	Toxaphene
	CAS	72-54-8	72-55-9	50-29-3	309-00-2	319-84-6	319-85-7	12789-03-6	319-86-8	60-57-1	115-29-7	33213-65-9	1031-07-8	72-20-8	7421-93-4	53494-70-5	58-89-9	76-44-8	1024-57-3	72-43-5	8001-35-2
	RSLs (mg/kg)	2.30	2.00	1.90	0.039	0.086	0.30	1.70	NE	0.034	470	470^	380	19	NE	19*	0.57	0.13	0.07	320	0.49
	DTSC-SLs (mg/kg)	1.90	2.00	1.90	0.039	0.086	0.30	1.70	NE	0.034	450	450^	380	19	NE	19*	0.57	0.13	0.07	320	0.45
B1-0.5	2/20/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B1-2	2/20/2023	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B2-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B2-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B3-0.5	2/20/2023	ND (<0.0022)	ND (<0.0029)	ND (<0.0029)	ND (<0.0026)	ND (<0.0024)	ND (<0.0033)	**0.044J**	ND (<0.0027)	ND (<0.0029)	ND (<0.0028)	ND (<0.0031)	ND (<0.0033)	ND (<0.0031)	ND (<0.0034)	ND (<0.0028)	ND (<0.0021)	ND (<0.003)	ND (<0.0036)	ND (<0.01)	ND (<0.029)
B3-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	**0.0024J**	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B4-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B4-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B5-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0016)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.014)
B5-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B6-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0016)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.014)
B6-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0016)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.014)
B7-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B7-0.5 DUP	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B7-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B8-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B8-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B9-0.5	2/20/2023	ND (<0.022)	ND (<0.029)	ND (<0.029)	ND (<0.026)	ND (<0.024)	ND (<0.033)	ND (<0.22)	ND (<0.027)	ND (<0.029)	ND (<0.028)	ND (<0.031)	ND (<0.032)	ND (<0.031)	ND (<0.034)	ND (<0.028)	ND (<0.021)	ND (<0.03)	ND (<0.036)	ND (<0.1)	ND (<0.29)
B9-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B10-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B10-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0016)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.014)
B11-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B11-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0015)	ND (<0.0016)	ND (<0.0015)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)
B12-0.5	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.0051)	ND (<0.015)
B12-2	2/20/2023	ND (<0.0011)	ND (<0.0014)	ND (<0.0014)	ND (<0.0013)	ND (<0.0012)	ND (<0.0017)	ND (<0.011)	ND (<0.0013)	ND (<0.0014)	ND (<0.0014)	ND (<0.0016)	ND (<0.0016)	ND (<0.0016)	ND (<0.0017)	ND (<0.0014)	ND (<0.001)	ND (<0.0015)	ND (<0.0018)	ND (<0.005)	ND (<0.015)

NOTES:

mg/kg = milligrams per kilogram

MDL = Method Detection Limit

RSL = Regional Screening Level-Residential Land Use, Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use, revised May 2022

NE = No Screening Level Established

ND = Not detected at or above the MDL

"- -" = Not Analyzed

J = Analyte was detected; however, result is an estimated value between the RDL and the MDL

DUP = Duplicate sample

* = No RSL or DTSC-SL has been established for Endrine Ketone. RSL and DTSC-SL for Endrine has been used.

^ = No RSL or DTSC-SL has been established for Endosulfan II. RSL and DTSC-SL for Endosulfan I has been used.

Table 4 - VOCs in Soil Vapor Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, CA 90404

Sample ID	Compound	VOCS EPA Method 8260																		
		1,1,1,2-Tetrachloroethane	1,1,1-Trichloroethane	1,1,2,2-Tetrachloroethane	1,1,2-Trichloroethane	1,1-Dichloroethane	1,1-Dichloroethene	1,2,4-Trimethylbenzene	1,2-Dibromoethane (EDB)	1,2-Dichlorobenzene	1,2-Dichloroethane	1,3,5-Trimethylbenzene	1,3-Dichlorobenzene	1,4-Dichlorobenzene	4-Isopropyltoluene	Benzene	Bromodichloromethane	Bromoform	Carbon tetrachloride	Chlorobenzene	Chloroform
	RSLs (µg/m3)	12.7	173,333	1.60	6.0	60	7,000	2,100	0.157	7,000	3.67	2,100	NE	8.7	NE	12.0	2.53	87	15.67	1,733	4.0
	DTSC-SLs (µg/m3)	12.67	33,333	1.60	NE	60	2,433	NE	0.16	NE	NE	NE	NE	NE	NE	3.23	2.53	86.67	16	NE	NE
	RL (µg/m3):	8.0	8.0	16	8.0	8.0	8.0	8.0	8.0	16	8.0	8.0	16	16	8.0	8.0	8.0	8.0	8.0	8.0	8.0
SV1-5	2/20/2023	ND	ND	ND	ND	ND	ND	**75**	ND	ND	ND	**26**	ND	ND	ND	**18**	**53**	**10**	ND	ND	**163**
SV1-15	2/20/2023	ND	ND	ND	ND	ND	ND	**85**	ND	ND	ND	**27**	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV2-5	2/20/2023	ND	ND	ND	ND	ND	ND	**97**	ND	ND	ND	**38**	ND	ND	ND	**334**	**45**	ND	ND	ND	**139**
SV2-5 REP	2/20/2023	ND	ND	ND	ND	ND	ND	**82**	ND	ND	ND	**33**	ND	ND	ND	**251**	**29**	ND	ND	ND	**111**
SV2-15	2/20/2023	ND	ND	ND	ND	ND	ND	**107**	ND	ND	ND	**39**	ND	ND	ND	ND	ND	ND	ND	ND	ND
SV3-5	2/20/2023	ND	ND	ND	ND	ND	ND	**372**	ND	ND	ND	**148**	ND	ND	ND	**751**	**44**	ND	ND	ND	**107**
SV3-15	2/20/2023	ND	ND	ND	ND	ND	ND	**109**	ND	ND	ND	**36**	ND	ND	ND	ND	ND	ND	ND	ND	ND

NOTES:

µg/m^3 = micrograms per cubic meter

RL = Laboratory Reporting Limit

RSL = Regional Screening Level-Residential Land Use (Attenuation Factor of 0.03), Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use (Attenuation Factor of 0.03), revised May 2022

NE = No Screening Level Established

ND = Not detected at or above the RL

"- -" = Not Analyzed

DUP = Duplicate sample

Table 4 - VOCs in Soil Vapor Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, CA 90404

Sample ID	Compound	VOCS EPA Method 8260																	
		cis-1,2-Dichloroethene	Dibromochloromethane	Di-isopropylether	Ethylbenzene	Ethyl-tert-butylether	Freon 11	Freon 113	Freon 12	Isopropanol (LCC)	Isopropylbenzene	m,p-Xylene	Methylene chloride	Methyl-tert-butylether	Naphthalene	n-Butylbenzene	n-Hexane (LCC)	n-Pentane (LCC)	n-Propanol (LCC)	n-Propylbenzene
	RSLs (µg/m3)	1,400	NE	24,333	37	1,167	NE	173,333	3,333	7,000	14,000	3,333	3,333	367	3	NE	24,333	33,333	NE	33,333
	DTSC-SLs (µg/m3)	277	4.33	NE	NE	NE	43,333	NE	NE	NE	NE	NE	33.33	467	NE	7,000	NE	NE	NE	NE
	RL (µg/m3):	8.0	8.0	40	8.0	40	16	16	16	80	8.0	16	8.0	40	40	12	80	80	80	8.0
SV1-5	2/20/2023	ND	**22**	ND	**36**	ND	ND	ND	ND	ND	ND	**177**	ND	ND	ND	ND	ND	ND	ND	**17**
SV1-15	2/20/2023	ND	ND	ND	**41**	ND	ND	ND	ND	ND	ND	**183**	ND	ND	ND	ND	ND	ND	ND	**15**
SV2-5	2/20/2023	ND	**17**	ND	**164**	ND	ND	ND	ND	ND	ND	**602**	ND	ND	ND	ND	ND	ND	ND	**27**
SV2-5 REP	2/20/2023	ND	**15**	ND	**131**	ND	ND	ND	ND	ND	ND	**519**	ND	ND	ND	ND	ND	ND	ND	**26**
SV2-15	2/20/2023	ND	ND	ND	**50**	ND	ND	ND	ND	ND	ND	**241**	ND	ND	ND	ND	ND	ND	ND	**23**
SV3-5	2/20/2023	ND	**20**	ND	**702**	ND	ND	ND	ND	ND	ND	**2,540**	ND	ND	ND	ND	ND	ND	ND	**100**
SV3-15	2/20/2023	ND	ND	ND	**31**	ND	ND	ND	ND	ND	ND	**148**	ND	ND	ND	ND	ND	ND	ND	**19**

NOTES:

µg/m^3 = micrograms per cubic meter

RL = Laboratory Reporting Limit

RSL = Regional Screening Level-Residential Land Use (Attenuation Factor of 0.03), Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use (Attenuation Factor of 0.03), revised May 2022

NE = No Screening Level Established

ND = Not detected at or above the RL

"- -" = Not Analyzed

DUP = Duplicate sample

Table 4 - VOCs in Soil Vapor Laboratory Analysis Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, CA 90404

Sample ID	Compound	VOCS EPA Method 8260									
		o-Xylene	sec-Butylbenzene	Styrene	tert-amylmethylether	tert-Butylalcohol	tert-Butylbenzene	Tetrachloroethene	Toluene	trans-1,2-Dichloroethene	Trichloroethene
	RSLs (µg/m3)	3,333	NE	33,333	NE	173,333	NE	367	173,333	1,400	16
	DTSC-SLs (µg/m3)	NE	14,000	31,333	NE	NE	14,000	15.33	10,333	2,767	67
	RL (µg/m3):	8.0	12	8.0	40	400	12	8.0	8.0	8.0	8.0
SV1-5	2/20/2023	**58**	ND	ND	ND	ND	ND	**13**	**101**	ND	ND
SV1-15	2/20/2023	**61**	ND	ND	ND	ND	ND	**690**	**100**	ND	ND
SV2-5	2/20/2023	**179**	ND	ND	ND	ND	ND	**10**	**1,620**	ND	ND
SV2-5 REP	2/20/2023	**156**	ND	ND	ND	ND	ND	**10**	**1,270**	ND	**11**
SV2-15	2/20/2023	**83**	ND	ND	ND	ND	ND	**1,330**	**97**	ND	ND
SV3-5	2/20/2023	**729**	ND	ND	ND	ND	ND	ND	**5,060**	ND	ND
SV3-15	2/20/2023	**58**	ND	ND	ND	ND	ND	**653**	**55**	ND	ND

NOTES:

µg/m^3 = micrograms per cubic meter

RL = Laboratory Reporting Limit

RSL = Regional Screening Level-Residential Land Use (Attenuation Factor of 0.03), Environmental Protection Agency (Pacific Southwest, Region 9), updated May 2022

DTSC-SLs = Department of Toxic Substance Control Modified Screening Levels-Residential Land Use (Attenuation Factor of 0.03), revised May 2022

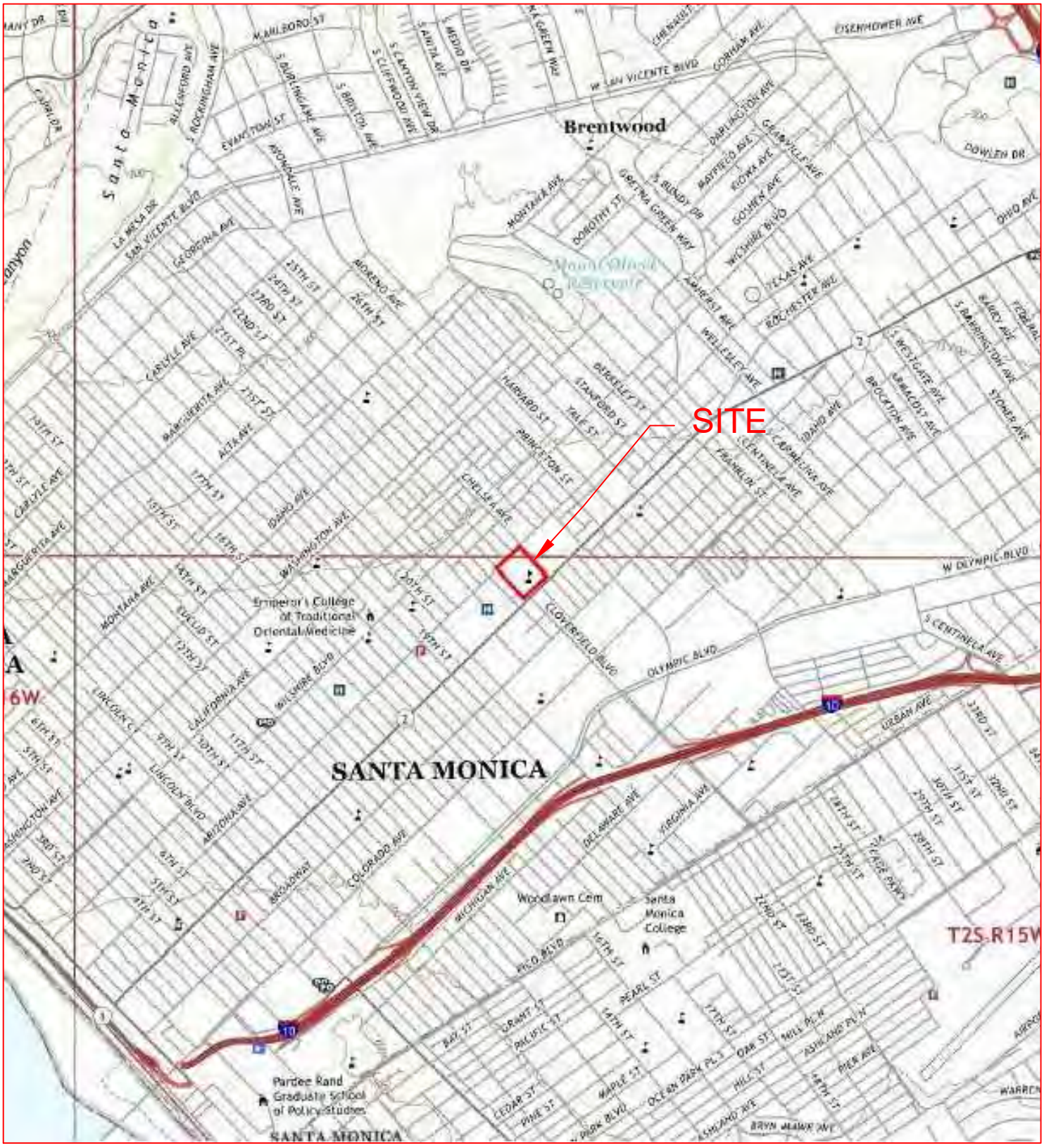
NE = No Screening Level Established

ND = Not detected at or above the RL

"- -" = Not Analyzed

DUP = Duplicate sample

FIGURES



Approximate Outline of Site

FIGURE 1: Site Location Map

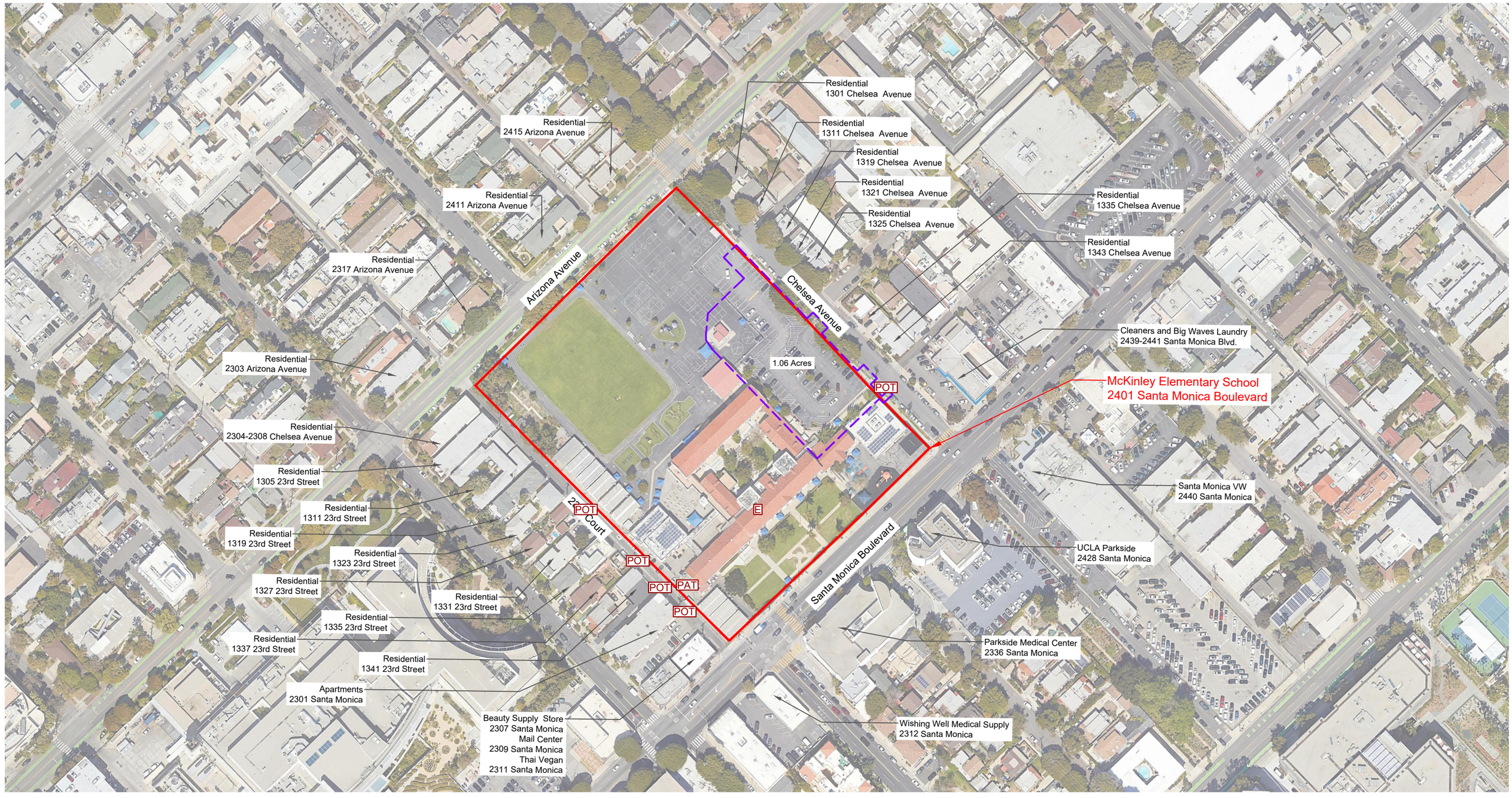
CLIENT: Santa Monica-Malibu Unified School District	SITE LOCATION: 2401 Santa Monica Boulevard Santa Monica, California 90404
PROJECT #: SMSD-21-11335	

NV5 ALTA ENVIRONMENTAL

3777 Long Beach Blvd., Annex Bldg.
Long Beach, CA 90807
(562) 495-5777 www.altaenviron.com

DRAWN: ED	APPROVED: EF	NORTH
SCALE: None	DATE: 2/20/2023	

W:\Clients N-S\Santa Monica-Malibu USD (SMSD)\SMSD-21-10665 5 Phase I ESAs\Photos - Drawings\AutoCAD\SMSD-21-10665-3\SMSD-21-10665-3 CAD.dwg



LEGEND:

- Approximate Campus Boundary
- Approximate Extents of Earthworks
- E — Hydraulic Passenger Elevator
- PAT — Pad Mounted Electrical Transformer
- POT — Pole Mounted Electrical Transformer

APPX. SCALE:
1" = 150'
0 — 150' — 1"

NORTH

FIGURE 2: Site Vicinity Map

CLIENT: Santa Monica Malibu Unified School District	DRAWN: AHL	APPROVED: EF
	SCALE: NTS	DATE: Feb. 2023

SITE LOCATION:
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California 90404

PROJECT #: SMSD-23-11335

NV5
ALTA ENVIRONMENTAL
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5877 ♦ altaenviron.com

W:\Clients N-S\Santa Monica-Malibu USD (SMSD)\McKinley ES\SMSD-23-11335 McKinley Site Assessment\Photos - Drawings\Figure 4 MK.dwg

LEGEND:

- Approximate Campus Boundary
- Approximate Extents of Earthworks
- Approximate Boring Locations
- Approximate Soil Vapor Probe Locations

APPX. SCALE: 1" = 30'

0 30' 1"

NORTH

FIGURE 3: Sample Locations

CLIENT: Santa Monica Malibu Unified School District	DRAWN: RB	APPROVED: EF
	SCALE: NTS	DATE: Feb. 2023
SITE LOCATION: McKinley Elementary School 2401 Santa Monica Boulevard Santa Monica, California 90404		
PROJECT #: SMSD-23-11335		

NV5
3777 Long Beach Blvd. Annex Bldg. Long Beach CA 90807
P: (562) 495-5777 ♦ F: (562) 495-5377 ♦ altaenviron.com

APPENDIX A

Staff Certifications

State of California
Division of Occupational Safety and Health

Certified Site Surveillance Technician

Thomas D Jenkins
Name

Certification No. **19-6698**

Expires on **01/14/24**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

State of California
Division of Occupational Safety and Health
Certified Asbestos Consultant

David Schack
Name

Certification No. **92-0219**

Expires on **07/09/23**

This certification was issued by the Division of Occupational Safety and Health as authorized by Sections 7180 et seq. of the Business and Professions Code.

BOARD FOR PROFESSIONAL ENGINEERS, LAND SURVEYORS, AND GEOLOGISTS

LICENSING DETAILS FOR: 76976

NAME: FRASKE, ERIC C

LICENSE TYPE: CIVIL ENGINEER

LICENSE STATUS: CLEAR

ADDRESS

59 GRANADA AVENUE
LONG BEACH CA 90803
LOS ANGELES COUNTY

ISSUANCE DATE

JULY 16, 2010

EXPIRATION DATE

DECEMBER 31, 2024

CURRENT DATE / TIME

APRIL 18, 2023
9:21:43 AM

APPENDIX B

Soil Sampling Logs

Soil Sampling Log

Project Name: McKinley ES Site Investigation Project Number: SMSD-23-11335 Sampling Date: February 20, 2022 Logged by: Eric Fraske, Noah Stevens, and Ruta Bandziulis	Driller: Strongarm Environmental Field Services, Inc. Drilling Method: Geoprobe Boring Diameter: 2.25 Inches

Soil Boring Location	Ground Surface	Soil Sample Depth (Feet bgs)		PID Measurement (ppm)	Soil Sample Time
B1	Grass	0.5	Brown, silty sand, moist, trace organics, no odor, no staining, SC	0.0	10:15
		2	Brown, sandy clay, moist, trace organics, SC	0.0	10:18
		4	Medium brown, sandy clay, moist, SC	0.0	10:21
B2	4" Asphalt No Concrete	0.5	Dark yellowish brown, sandy lean clay, moist, no odor, no staining, CL	0.0	10:26
		2	Dark yellowish brown, lean clay, MP, no odors, no stains, CL	0.0	10:33
		4	Dark yellowish brown, lean clay with sand, MP, no odors, no stains, CL	0.0	10:35
B3	Grass	0.5	Brown, silty sand, moist, no odor, no staining, SC	0.0	10:45
		2	Dark brown, lean clay with sand, moist, trace weathered brick fragments, CL	0.0	10:45
		4	Brown, lean clay, moist, CL	0.0	10:45
B4	4" AC	0.5	Dark brown, lean sand with clay, no odors, no staining, wet, CL	0.0	10:59
		2	Dark brown, lean sand with clay, no odors, no staining, moist, SC	0.0	10:59
		4	Light brown, sandy lean clay, dry, SC	0.0	10:59

Soil Sampling Log

Project Name: McKinley ES Site Investigation Project Number: SMSD-23-11335 Sampling Date: February 20, 2022 Logged by: Eric Fraske, Noah Stevens, and Ruta Bandziulis	Driller: Strongarm Environmental Field Services, Inc. Drilling Method: Geoprobe Boring Diameter: 2.25 Inches

Soil Boring Location	Ground Surface	Soil Sample Depth (Feet bgs)		PID Measurement (ppm)	Soil Sample Time
B5	3" AC	0.5	Dark brown, silty sand, moist, no odors, no staining, SC	0.0	11:09
		2	Yellowish brown, silt, moist, ML	0.0	11:09
		4	Dark yellowish brown, silty sand, dry, ML	0.0	11:09
B6	3" AC	0.5	Dark brown, silt with sand, moist, no odors, no staining, ML	0.0	11:17
		2	Dar yellowish brown, silty sand, moist, ML	0.0	11:17
		4	Dark yellowish brown, sandy lean clay, moist, CL	0.0	11:17
B7	4" AC	0.5	Dark yellowish brown, sandy lean clay, moist, no odors, no staining, CL	0.0	12:40
		2	Dark yellowish brown, sandy lean clay, moist, no odors, no staining, CL	0.0	12:40
		4	Dark yellowish brown, sandy lean clay, moist, no odors, no staining, CL	0.0	12:40
B8	3.5" AC	0.5	Dark brown, clayey sand, moist, no odor, no staining, SC	0.0	12:51
		2	Dark brown, clayey sand, dry, no odor, no staining, SC	0.0	12:51
		4	Dark brown, clayey sand, dry, no odor, no staining, SC	0.0	12:51

Soil Sampling Log

Project Name: McKinley ES Site Investigation Project Number: SMSD-23-11335 Sampling Date: February 20, 2022 Logged by: Eric Fraske, Noah Stevens, and Ruta Bandziulis	Driller: Strongarm Environmental Field Services, Inc. Drilling Method: Geoprobe Boring Diameter: 2.25 Inches

Soil Boring Location	Ground Surface	Soil Sample Depth (Feet bgs)		PID Measurement (ppm)	Soil Sample Time
B9	4" AC	0.5	Dark brown, clayey sand, wet, no odors, no stains, SC	0.0	12:59
		2	Dark yellowish brown, lean clay, moist, no odors, no staining, CL	0.0	12:59
		4	Dark yellowish brown, lean clay, moist, no odors, no staining, CL	0.0	12:59
B10	2.5" AC	0.5	Dark brown, clayey sand, moist, no odor, no staining, SC	0.0	12:32
		2	Dark yellowish brown, lean clay with sand, no odor, no staining, CL	0.0	12:32
		4	Dark yellowish brown, lean clay with sand, no odor, no staining, CL	0.0	12:32
B11	3" AC	0.5	Dark brown, clayey sand, moist, no odor, no staining, SC	0.0	13:12
		2	Dark yellowish brown, poorly-graded sand with clay, moist, no odors, no staining, SP	0.0	13:12
		4	Dark yellowish brown, lean clay, dry, no odor, no staining, CL	0.0	13:12
B12	4" AC	0.5	Dark brown, sandy lean clay, moist, no odors, no staining, SC	0.0	10:51
		2	Dark brown, clayey sand, moist, no odor, no staining, SC	0.0	10:51
		4	Brown, lean clay, dry, SC	0.0	10:51

Soil Sampling Log

Project Name: McKinley ES Site Investigation Project Number: SMSD-23-11335 Sampling Date: February 20, 2022 Logged by: Eric Fraske, Noah Stevens, and Ruta Bandziulis	Driller: Strongarm Environmental Field Services, Inc. Drilling Method: Geoprobe Boring Diameter: 2.25 Inches

Soil Boring Location	Ground Surface	Soil Sample Depth (Feet bgs)		PID Measurement (ppm)	Soil Sample Time
SV1	3" Asphalt 6" Concrete	5	Medium brown, clayey sand, semi-moist, no odors, no staining, SC	0.0	8:28
		10	Grayish brown, poorly-graded sand with gravel and silt, SP	0.0	8:37
		15	Grayish brown, poorly-graded sand with gravel and silt, SP	0.0	8:48
SV2	2.5" Asphalt 7" Concrete	5	Dark yellowish brown, sandy clay, moist, no odor, no staining, CL	0.2	9:03
		10	Dark yellowish brown, sandy clay, moist, no odor, no staining, CL	0.0	9:07
		15	Dark brown, poorly-graded sand with gravel, SP	0.0	9:21
SV3	4" AC	5	Dark yellowish brown, sandy clay, moist, no odor, no staining, CL	0.0	9:43
		10	Light brown, clayey sand with gravel, moist, no odor, no staining, SC	0.0	9:47
		15	Medium brown, clayey sand with gravel, moist, GC	0.0	9:52

Notes:
Groundwater was not encountered at any sampling location
DUPLICATE SAMPLE at B7, 05 ft bgs
bgs: Below ground surface
PPM: Parts Per Million

APPENDIX C

Laboratory Analytical Results

Please Reply To:

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

LABORATORY ELECTRONIC TRANSMITTAL

To: Project Manager
NV5, Inc.
Fax #:

Email: diane.arredondo@nv5.com, Therese.Rizarri@nv5.com, eric.fraske@nv5.com, eric.fleming@nv5.com, david.schack@nv5.com

From: Megan A DeLara
AmeriSci Job #: 923021365
Subject: PLM 5 day Results
Client Project: SMSD-23-113358; McKinley ES Cores

Date: Monday, February 27, 2023
Time: 10:01:49
Comments:

Number of Pages: _____
(including cover sheet)

NOTE: Attached report is to be considered preliminary until final review with accompanying analysis summary letter is issued.

AmeriSci Los Angeles
24416 S. Main Street, Ste 308
Carson, California 90745
TEL: (310) 834-4868 • FAX: (310) 834-4772

PLM Bulk Asbestos Report

NV5, Inc.
Attn: Project Manager
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807-3335

Date Received 02/20/23
Date Examined 02/26/23

AmeriSci Job # 923021365
P.O. #
Page 1 **of** 3

RE: SMSD-23-113358; McKinley ES Cores

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
SV1	923021365-01	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Staff Parking Lot-NE			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
SV2	923021365-02	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Parking Lot-NE Disabled Parking			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B2	923021365-03	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Parking Lot-E At Path			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
SV3	923021365-04	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Parking Lot-E At Path			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B4	923021365-05	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Parking Lot-S At Entry Gate			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

SMSD-23-113358; McKinley ES Cores

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B5	923021365-06	***No***	NAD
Location: Parking Lot-SW			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B6	923021365-07	***No***	NAD
Location: Parking Lot-SW			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B11	923021365-08	***No***	NAD
Location: Parking Lot-N			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B12	923021365-09	***No***	NAD
Location: Parking Lot-NE			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B10	923021365-10	***No***	NAD
Location: Parking Lot-N			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			
B7	923021365-11	***No***	NAD
Location: Playground-NW Of Restroom			(by CVES) by Megan A DeLara on 02/26/23
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt			
Asbestos Types:			
Other Material: Non-fibrous 100%			

See Reporting notes on last page

PLM Bulk Asbestos Report

SMSD-23-113358; McKinley ES Cores

Client No. / HGA	Lab No.	Asbestos Present	Total % Asbestos
B8	923021365-12	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Playground-S Of Restroom 3.5			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt **Asbestos Types:** **Other Material:** Non-fibrous 100%			
B9	923021365-13	***No***	NAD (by CVES) by Megan A DeLara on 02/26/23
Location: Playground-N Of Room B10			
Analyst Description: Black, Homogeneous, Non-Fibrous, Cementitious, Asphalt **Asbestos Types:** **Other Material:** Non-fibrous 100%			

Reporting Notes:

Analyzed by: Megan A DeLara
Date: 2/26/2023

Reviewed by: Patricia Weakley

*NAD = no asbestos detected; Detection Limit <1%; Reporting Limits: CVES = 1%, 400 Pt Ct = 0.25%, 1000 Pt Ct = 0.1%; NA = not analyzed; NA/PS = not analyzed / positive stop; NVA = No Visible Asbestos; PLM (polarized light microscopy) Bulk Asbestos Analysis by EPA 600/R-93/116, including requirements for EPA 600/M4-82-020 per 40 CFR 763 (NVLAP Lab #200346-0); Note: PLM is not consistently reliable in detecting asbestos in floor coverings and similar NOB materials. TEM is currently the only method that can be used to determine if this material can be considered or treated as non-asbestos-containing in New York State (also see EPA Advisory for floor tile, FR 59, 146, 38970, 8/1/94). NIST Accreditation requirements mandate that this report must not be reproduced except in full with the approval of the laboratory. This PLM report relates ONLY to the items tested.

AMERI SCI
www.amerisci.com

Asbestos / Lead Analysis Chain of Custody

AMERISCI JOB #: 923021365

AMERISCI LOS ANGELES
24416 S Main St. Suite 308
Carson, CA 90745
Phone (310) 834-4868
Fax (310) 834-4772

COMPANY:	ADDRESS:	P.O.#:
NV5/Alta Environmental	3777 Long Beach Boulevard, Long Beach 90804	

PROJECT INFORMATION	ANALYSIS TYPE	TURNAROUND TIME						AIR FILTER INFORMATION:	
		RUSH	24 HR	48 HR	72 HR	5 DAY	OTHER		
JOB NAME: McKinley ES Cores	TEM AHERA							MCE	
	PLM Bulk					X		PC	
JOB NUMBER: SMSD-23-113358	PCM Air							25 mm	
	PLM 1000 P.C.	■						37 mm	
JOB MANAGER: Eric Fraske	Lead Air							0.45 um	
	Lead Wipe							0.80 um	
JOB DESCRIPTION:	Lead Paint / Soil							TEMP:	
	OTHER:							OTHER:	

INITIAL RESULTS DELIVERY: ☐ FAX ☑ EMAIL ☐ VERBAL ☐ MAIL ONLY

RETURN SAMPLES YES ☐

REPORTS TO: Eric Fraske, Eric Fleming, David Schack

PHONE: 562-477-0935

INVOICE TO:

FAX:

COMMENTS: Asphalt Cores

EMAIL: Eric.Fraske@NV5.com, Eric.Fleming@NV5.com, David.Schack@NV5.com

CELL: 562.544.3910

SAMPLE ID	SAMPLE LOCATION	START TIME	STOP TIME	TOTAL TIME	X LITERS /MIN.	= TOTAL VOLUME	DATE COLLECTED
SV1	Parking lot - NE staff						2/20/23
SV2	Parking lot - NE disabled parking						
B2	Parking lot - E @ path						
SV3	Parking lot - E @ path						
B4	Parking lot - S @ entry gate						
B5	Parking lot - SW						
B6	Parking lot - SW						
B11	Parking lot - N						
B12	Parking lot - NE						
B10	Parking lot - N 2.5						
B7	Playground - NW of Restrooms 4						
B8	Playground - S. of Restrooms 3.5						
B9	Playground - N. of Room B10 4						

SAMPLED BY:	DATE/TIME:	RECEIVED BY:	DATE/TIME:
Thomas Jenkins, CSST Thomas Jenkins 2/20/23			
RELINQUISHED BY: Thomas Jenkins	DATE/TIME: 2/20/23 12:10	RECEIVED BY:	DATE/TIME:
RELINQUISHED BY:	DATE/TIME:	RECEIVED IN LAB BY: Daeana Meza	DATE/TIME: 02.20.2023 12:10

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

enthalpy.com

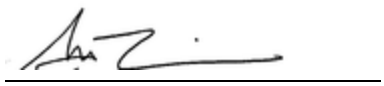
Lab Job Number: 479920
Report Level: II
Report Date: 03/23/2023

Analytical Report *prepared for:*

Eric Fraske
NV5 - Long Beach
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807

Location: McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA

Authorized for release by:



Jim Lin, Service Center Manager
Jim.lin@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

Eric Fraske NV5 - Long Beach 3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Lab Job #: Location: Date Received:	479920 McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA 02/21/23

Sample ID	Lab ID	Collected	Matrix
SV1-5	479920-001	02/20/23 08:28	Soil
SV1-10	479920-002	02/20/23 08:37	Soil
SV1-15	479920-003	02/20/23 08:48	Soil
SV2-5	479920-004	02/20/23 09:03	Soil
SV2-10	479920-005	02/20/23 09:07	Soil
SV2-15	479920-006	02/20/23 09:21	Soil
SV3-5	479920-007	02/20/23 09:43	Soil
SV3-10	479920-008	02/20/23 09:47	Soil
SV3-15	479920-009	02/20/23 09:52	Soil
B1-0.5	479920-010	02/20/23 10:18	Soil
B1-2	479920-011	02/20/23 10:18	Soil
B1-4	479920-012	02/20/23 10:21	Soil
B3-0.5	479920-013	02/20/23 10:26	Soil
B3-2	479920-014	02/20/23 10:33	Soil
B3-4	479920-015	02/20/23 10:35	Soil
B2-0.5	479920-016	02/20/23 10:45	Soil
B2-2	479920-017	02/20/23 10:45	Soil
B2-4	479920-018	02/20/23 10:45	Soil
B12-0.5	479920-019	02/20/23 10:51	Soil
B12-2	479920-020	02/20/23 10:51	Soil
B12-4	479920-021	02/20/23 10:51	Soil
B4-0.5	479920-022	02/20/23 10:59	Soil
B4-2	479920-023	02/20/23 10:59	Soil
B4-4	479920-024	02/20/23 10:59	Soil
B5-0.5	479920-025	02/20/23 11:09	Soil
B5-2	479920-026	02/20/23 11:09	Soil

ENTHALPY ANALYTICAL

Sample Summary

Eric Fraske NV5 - Long Beach 3777 Long Beach Blvd. Annex Building Long Beach, CA 90807	Lab Job #: Location: Date Received:	479920 McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA 02/21/23

Sample ID	Lab ID	Collected	Matrix
B5-4	479920-027	02/20/23 11:09	Soil
B6-0.5	479920-028	02/20/23 11:17	Soil
B6-2	479920-029	02/20/23 11:17	Soil
B6-4	479920-030	02/20/23 11:17	Soil
EBLANK	479920-031	02/20/23 11:20	Water
B10-0.5	479920-032	02/20/23 12:32	Soil
B10-2	479920-033	02/20/23 12:32	Soil
B10-4	479920-034	02/20/23 12:32	Soil
B7-0.5	479920-035	02/20/23 12:32	Soil
B7-0.5 DUP	479920-036	02/20/23 12:40	Soil
B7-2	479920-037	02/20/23 12:40	Soil
B7-4	479920-038	02/20/23 12:40	Soil
B8-0.5	479920-039	02/20/23 12:51	Soil
B8-2	479920-040	02/20/23 12:51	Soil
B8-4	479920-041	02/20/23 12:51	Soil
B9-0.5	479920-042	02/20/23 12:59	Soil
B9-2	479920-043	02/20/23 12:59	Soil
B9-4	479920-044	02/20/23 12:59	Soil
B11-0.5	479920-045	02/20/23 13:12	Soil
B11-2	479920-046	02/20/23 13:12	Soil
B11-4	479920-047	02/20/23 13:12	Soil
TRIP BLANK	479920-048	02/20/23 14:00	Water

ENTHALPY ANALYTICAL

Case Narrative

NV5 - Long Beach 3777 Long Beach Blvd. Annex Building Long Beach, CA 90807 Eric Fraske	Lab Job Number:	479920
	Location:	McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA
	Date Received:	02/21/23

This data package contains sample and QC results for twenty nine soil samples and two water samples, requested for the above referenced project on 02/21/23. The samples were received cold and intact.

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

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

Pesticides (EPA 8081A) Soil:

- High RPD was observed for 4,4'-DDT in the MS/MSD for batch 308299; the parent sample was not a project sample, and this analyte was not detected at or above the RL in the associated samples.
- B9-0.5 (lab # 479920-042) was diluted due to the dark color of the sample extract.
- B3-0.5 (lab # 479920-013) was diluted due to the color of the sample extract.
- No other analytical problems were encountered.

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

PCBs (EPA 8082) Soil:

- High RPD was observed for Aroclor-1260 in the MS/MSD of B5-2 (lab # 479920-026); this analyte was not detected at or above the RL in the associated samples.
- B9-0.5 (lab # 479920-042) was diluted due to the dark color of the sample extract.
- No other analytical problems were encountered.

Metals (EPA 6020) Water:
No analytical problems were encountered.

Metals (EPA 6020) Soil:

- Low recovery was observed for lead in the MS for batch 308147; the parent sample was not a project sample, the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 479920

Page: 1 of 5

Turn Around Time (rush by advanced notice only)

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

Enthalpy Analytical - Orange
931 W. Barkley Avenue, Orange, CA 92868
Phone 714-771-6900

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:	NV5	Name:	McKinley ES
Report To:	Eric Fraske	Number:	SMSD-23-11335
Email:	eric.fraske@nv5.com	P.O. #:	
Address:	3777 Long Beach Blvd, Annex Bldg	Address:	2401 Santa Monica Blvd
	Long Beach, CA 90807		Santa Monica, CA 90404
Phone:	562-544-3977	Global ID:	
Fax:		Sampled By:	EF and NS

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead EPA Method 6010	Arsenic EPA Method 6020	PCBS EPA Method 8082	OCPs EPA Method 8081	TPH Carbon Chain EPA Method 8015	Title 22 Metals 6010	VOCs EPA Method 8260		Archive and Hold		Test Instructions / Comments
1	SV1-5	02/20/23	8:28 AM	Soil	1 Tube	None									X		
2	SV1-10	02/20/23	8:37 AM	Soil	1 Tube	None									X		
3	SV1-15	02/20/23	8:48 AM	Soil	1 Tube	None									X		
4	SV2-5	02/20/23	9:03 AM	Soil	1 Tube	None									X		
5	SV2-10	02/20/23	9:07 AM	Soil	1 Tube	None									X		
6	SV2-15	02/20/23	9:21 AM	Soil	1 Tube	None									X		
7	SV3-5	02/20/23	9:43 AM	Soil	1 Tube	None									X		
8	SV3-10	02/20/23	9:47 AM	Soil	1 Tube	None									X		
9	SV3-15	02/20/23	9:52 AM	Soil	1 Tube	None									X		
10	B1-0.5	02/20/23	10:18 AM	Soil	1 Jar	None			X								

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Eric Fraske	NV5	
[1] Received By:		Dan Simpson	CA	2-21-23 12:20 PM
[2] Relinquished By:		Dan Simpson	CA	2-21-23 3:15 PM
[2] Received By:		WTCB	EA	2-21-23 1515
[3] Relinquished By:				
[3] Received By:				

8.4/3.1

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 479920

Page: 2 of 5

Turn Around Time (rush by advanced notice only)

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

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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:	NV5	Name:	McKinley ES
Report To:	Eric Fraske	Number:	SMSD-23-11335
Email:	eric.fraske@nv5.com	P.O. #:	
Address:	3777 Long Beach Blvd, Annex Bldg	Address:	2401 Santa Monica Blvd
	Long Beach, CA 90807		Santa Monica, CA 90404
Phone:	562-544-3977	Global ID:	
Fax:		Sampled By:	EF and NS

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead EPA Method 6010	Arsenic EPA Method 6020	PCBS EPA Method 8082	OCPs EPA Method 8081	TPH Carbon Chain EPA Method 8015	Title 22 Metals 6010	VOCs EPA Method 8260		Archive and Hold		Test Instructions / Comments
1	B1-2	02/20/23	10:18 AM	Soil	1 Jar	None			X								
2	B1-4	02/20/23	10:21 AM	Soil	1 Jar	None									X		
3	B3-0.5	02/20/23	10:26 AM	Soil	1 Jar	None	X	X	X	X							
4	B3-2	02/20/23	10:33 AM	Soil	1 Jar	None	X	X	X	X							
5	B3-4	02/20/23	10:35 AM	Soil	1 Jar	None									X		
6	B2-0.5	02/20/23	10:45 AM	Soil	1 Tube	None	X	X	X	X							
7	B2-2	02/20/23	10:45 AM	Soil	1 Tube	None	X	X	X	X							
8	B2-4	02/20/23	10:45 AM	Soil	1 Tube	None									X		
9	B12-0.5	02/20/23	10:51 AM	Soil	1 Tube	None	X	X		X							
10	B12-2	02/20/23	10:51 AM	Soil	1 Tube	None	X	X		X							

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Eric Fraske	NV5	
[1] Received By:		Don Sampson	EA	2-21-23 12:20PM
[2] Relinquished By:		Don Sampson	EA	2-21-23 3:15PM
[2] Received By:			EA	2-21-23 1515
[3] Relinquished By:				
[3] Received By:				

8.4/3.1

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 479920

Page: 3 of 5

Turn Around Time (rush by advanced notice only)

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

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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:	NV5	Name:	McKinley ES
Report To:	Eric Fraske	Number:	SMSD-23-11335
Email:	eric.fraske@nv5.com	P.O. #:	
Address:	3777 Long Beach Blvd, Annex Bldg	Address:	2401 Santa Monica Blvd
	Long Beach, CA 90807		Santa Monica, CA 90404
Phone:	562-544-3977	Global ID:	
Fax:		Sampled By:	EF and NS

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead EPA Method 6010	Arsenic EPA Method 6020	PCBS EPA Method 8082	OCPs EPA Method 8081	TPH Carbon Chain EPA Method 8015	Title 22 Metals 6010	VOCs EPA Method 8260		Archive and Hold		Test Instructions / Comments
1	B12-4	02/20/23	10:51 AM	Soil	1 Tube	None									X		
2	B4-0.5	02/20/23	10:59 AM	Soil	1 Tube	None	X	X	X	X							
3	B4-2	02/20/23	10:59 AM	Soil	1 Tube	None	X	X	X	X							
4	B4-4	02/20/23	10:59 AM	Soil	1 Tube	None									X		
5	B5-0.5	02/20/23	11:09 AM	Soil	1 Tube	None	X	X	X	X							
6	B5-2	02/20/23	11:09 AM	Soil	1 Tube	None	X	X	X	X							
7	B5-4	02/20/23	11:09 AM	Soil	1 Tube	None									X		
8	B6-0.5	02/20/23	11:17 AM	Soil	1 Tube	None	X	X	X	X							
9	B6-2	02/20/23	11:17 AM	Soil	1 Tube	None	X	X	X	X							
10	B6-4	02/20/23	11:17 AM	Soil	1 Tube	None									X		

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Eric Fraske	NV5	
[1] Received By:		Dan Sampson	ea	2/21/23 12:20pm
[2] Relinquished By:		Dan Sampson	ea	2/21/23 3:15pm
[2] Received By:		NV CLG		2-4-23 15 15
[3] Relinquished By:				
[3] Received By:				

8.4/3.1

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 479920

Page: 4 of 5

Turn Around Time (rush by advanced notice only)

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

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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:	NV5	Name:	McKinley ES
Report To:	Eric Fraske	Number:	SMSD-23-11335
Email:	eric.fraske@nv5.com	P.O. #:	
Address:	3777 Long Beach Blvd, Annex Bldg	Address:	2401 Santa Monica Blvd
	Long Beach, CA 90807		Santa Monica, CA 90404
Phone:	562-544-3977	Global ID:	
Fax:		Sampled By:	EF and NS

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead EPA Method 6010	Arsenic EPA Method 6020	PCBS EPA Method 8082	OCPs EPA Method 8081	TPH Carbon Chain EPA Method 8015	Title 22 Metals 6010	VOCs EPA Method 8260		Archive and Hold		Test Instructions / Comments
1	EBLANK	02/20/23	11:20 AM	Water	4 Bottles	-	X	X	X	X			X				
2	B10-0.5	02/20/23	12:32 PM	Soil	1 Tube	None	X	X		X							
3	B10-2	02/20/23	12:32 PM	Soil	1 Tube	None	X	X		X							
4	B10-4	02/20/23	12:32 PM	Soil	1 Tube	None									X		
5	B7-0.5	02/20/23	12:32 PM	Soil	1 Tube	None	X	X	X	X							
6	B7-0.5DUP	02/20/23	12:40 PM	Soil	1 Tube	None	X	X	X	X							
7	B7-2	02/20/23	12:40 PM	Soil	1 Tube	None	X	X	X	X							
8	B7-4	02/20/23	12:40 PM	Soil	1 Tube	None									X		
9	B8-0.5	02/20/23	12:51 PM	Soil	1 Tube	None	X	X	X	X							
10	B8-2	02/20/23	12:51 PM	Soil	1 Tube	None	X	X	X	X							

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Eric Fraske	NV5	
[1] Received By:				2-21-23 12:20 pm
[2] Relinquished By:				2-21-23 3:15 pm
[2] Received By:				2-24-23 1515
[3] Relinquished By:				
[3] Received By:				

8.4/3.1

ENTHALPY ANALYTICAL

Chain of Custody Record

Lab No: 479920

Page: 5 of 5

Turn Around Time (rush by advanced notice only)

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

Enthalpy Analytical - Orange

931 W. Barkley Avenue, Orange, CA 92868

Phone 714-771-6900

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:	NV5	Name:	McKinley ES
Report To:	Eric Fraske	Number:	SMSD-23-11335
Email:	eric.fraske@nv5.com	P.O. #:	
Address:	3777 Long Beach Blvd, Annex Bldg	Address:	2401 Santa Monica Blvd
	Long Beach, CA 90807		Santa Monica, CA 90404
Phone:	562-544-3977	Global ID:	
Fax:		Sampled By:	EF and NS

	Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Lead EPA Method 6010	Arsenic EPA Method 6020	PCBS EPA Method 8082	OCPs EPA Method 8081	TPH Carbon Chain EPA Method 8015	Title 22 Metals 6010	VOCs EPA Method 8260		Archive and Hold		Test Instructions / Comments
1	B8-4	02/20/23	12:51 PM	Soil	1 Tube	None									X		
2	B9-0.5	02/20/23	12:59 PM	Soil	1 Tube	None	X	X	X	X							
3	B9-2	02/20/23	12:59 PM	Soil	1 Tube	None	X	X	X	X							
4	B9-4	02/20/23	12:59 PM	Soil	1 Tube	None									X		
5	B11-0.5	02/20/23	1:12 PM	Soil	1 Tube	None	X	X		X							
6	B11-2	02/20/23	1:12 PM	Soil	1 Tube	None	X	X		X							
7	B11-4	02/20/23	1:12 PM	Soil	1 Tube	None									X		
8	Trip Blank	02/20/23	2:00 PM	Water	2 Bottles	-							X				
9																	
10																	

	Signature	Print Name	Company / Title	Date / Time
[1] Relinquished By:		Eric Fraske	NV5	
[1] Received By:				
[2] Relinquished By:				
[2] Received By:				
[3] Relinquished By:				
[3] Received By:				

8.4/3.1

ENTHALPY ANALYTICAL

SAMPLE ACCEPTANCE CHECKLIST

Section 1

Client: NV5 Project: McKinley ES

Date Received: 2/21/23 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: 0.4 #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: 3.1 #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

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: 2-21-23

Jim Lin

From: Eric Fraske <eric.fraske@altaenviron.com> on behalf of Eric Fraske
Sent: Tuesday, March 7, 2023 3:18 PM
To: Jim.lin@enthalpy.com
Subject: [EXTERNAL] RE: McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA - Enthalpy Data (479920)

Hi Jim,

For this project can I get the following samples analyzed for arsenic, standard TAT. These samples were previously being held for archival.

- B7-4
- B8-4
- B10-4
- B11-4

Thanks,

Eric Fraske | Senior Engineer III | **NV5** | Site Assessment and Remediation
3777 Long Beach Boulevard, Annex Building | Long Beach, CA 90807 | P: 562.495.5777 | C: 562.544.3910
eric.fraske@nv5.com | www.altaenviron.com | www.nv5.com | Electronic Communications Disclaimer

I am working remotely and can be reached via cell at 562.544.3910.

Alta Environmental is now NV5.

From: Jim Lin <Jim.lin@enthalpy.com>
Sent: Wednesday, March 1, 2023 8:22 PM
To: Eric Fraske <eric.fraske@altaenviron.com>
Subject: McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA - Enthalpy Data (479920)

Hi Eric,

Data qualifiers and additional information necessary for the interpretation of the test results are contained in the PDF file and may not be included in the EDD.

PLEASE let us know if you will be releasing any on HOLD samples to be analyze.

Please find attached the following files:
• PDF Deliverable
• Standard Format EDD (479920_standard.zip)

Email was also sent to: jim.lin@enthalpy.com

Jim Lin
Service Center Manager

931 W. Barkley Ave., Orange, CA 92868
O: 714-771-6900 M: 818-319-2359
Jim.Lin@enthalpy.com

To help protect the air we breathe, the water we drink, and the soil that feeds us.

Please take a moment to provide customer feedback
Terms and Conditions & Enthalpy Sample Acceptance Policy
https://enthalpy.com/news-events/

ENTHALPY ANALYTICAL

Analysis Results for 479920

Eric Fraske
NV5 - Long Beach
3777 Long Beach Blvd.
Annex Building
Long Beach, CA 90807

Lab Job #: 479920
Location: McKinley ES - 2401 Santa Monica Blvd., Santa Monica, CA
Date Received: 02/21/23

Sample ID: B1-0.5 **Lab ID: 479920-010** **Collected: 02/20/23 10:18**
Matrix: Soil

479920-010 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	**90**		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	93%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

Sample ID: B1-2 **Lab ID: 479920-011** **Collected: 02/20/23 10:18**
Matrix: Soil

479920-011 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	72%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B3-0.5	Lab ID: 479920-013	Collected: 02/20/23 10:26
	Matrix: Soil	

479920-013 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**6.2**		mg/Kg	0.97	0.73	0.97	308147	02/22/23	02/22/23	THP
Lead	**25**		mg/Kg	0.49	0.089	0.97	308147	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	10	2.4	2	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	10	3.3	2	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	10	2.1	2	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	10	2.7	2	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	10	3.0	2	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	10	2.6	2	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	10	3.6	2	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	10	2.8	2	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	10	2.9	2	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	10	2.9	2	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	10	3.1	2	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	10	3.1	2	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	10	3.3	2	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	10	2.2	2	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	10	3.4	2	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	10	2.8	2	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	10	2.9	2	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	20	10	2	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	200	29	2	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	**44**	J	ug/Kg	100	22	2	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	84%		%REC	23-120		2	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	111%		%REC	24-120		2	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	95%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B3-2	Lab ID: 479920-014	Collected: 02/20/23 10:33
	Matrix: Soil	

479920-014 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**7.8**		mg/Kg	0.96	0.72	0.96	308147	02/22/23	02/22/23	THP
Lead	**7.8**		mg/Kg	0.48	0.088	0.96	308147	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	**2.4**	J	ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.1	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	86%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	76%		%REC	24-120		1	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	19	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	82%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B2-0.5	Lab ID: 479920-016	Collected: 02/20/23 10:45
	Matrix: Soil	

479920-016 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.9**		mg/Kg	0.96	0.72	0.96	308213	02/22/23	02/22/23	THP
Lead	**9.5**		mg/Kg	0.48	0.088	0.96	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.0	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	80%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	73%		%REC	24-120		1	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.5	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	76%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B2-2	Lab ID: 479920-017	Collected: 02/20/23 10:45
	Matrix: Soil	

479920-017 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.2**		mg/Kg	0.98	0.74	0.98	308213	02/22/23	02/22/23	THP
Lead	**9.0**		mg/Kg	0.49	0.089	0.98	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.99	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	4.9	1.7	0.99	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	4.9	1.0	0.99	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	4.9	1.3	0.99	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	4.9	1.5	0.99	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	4.9	1.3	0.99	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.99	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	4.9	1.4	0.99	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	4.9	1.4	0.99	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.99	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	4.9	1.5	0.99	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	4.9	1.5	0.99	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.99	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.99	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.99	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	4.9	1.4	0.99	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.99	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	99	15	0.99	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	49	11	0.99	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	60%		%REC	23-120		0.99	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	62%		%REC	24-120		0.99	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	49	22	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	49	18	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	49	18	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	49	21	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	49	6.5	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	49	24	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	49	16	0.99	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	49	13	0.99	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	65%		%REC	19-121		0.99	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B12-0.5	Lab ID: 479920-019	Collected: 02/20/23 10:51
	Matrix: Soil	

479920-019 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**8.1**		mg/Kg	1.0	0.75	1	308213	02/22/23	02/22/23	THP
Lead	**9.4**		mg/Kg	0.50	0.091	1	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.1	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	79%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	73%		%REC	24-120		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B12-2	Lab ID: 479920-020	Collected: 02/20/23 10:51
	Matrix: Soil	

479920-020 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	ND		mg/Kg	0.99	0.74	0.99	308213	02/22/23	02/22/23	THP
Lead	ND		mg/Kg	0.50	0.090	0.99	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.0	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	70%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	64%		%REC	24-120		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B4-0.5	Lab ID: 479920-022	Collected: 02/20/23 10:59
	Matrix: Soil	

479920-022 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**6.9**		mg/Kg	0.99	0.74	0.99	308213	02/22/23	02/22/23	THP
Lead	**8.8**		mg/Kg	0.50	0.090	0.99	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.1	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	79%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	75%		%REC	24-120		1	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	19	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	79%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B4-2	Lab ID: 479920-023	Collected: 02/20/23 10:59
	Matrix: Soil	

479920-023 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.0**		mg/Kg	0.98	0.74	0.98	308213	02/22/23	02/22/23	THP
Lead	**8.3**		mg/Kg	0.49	0.089	0.98	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308299	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308299	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308299	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308299	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308299	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308299	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308299	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308299	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308299	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	10	5.1	1	308299	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308299	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	84%		%REC	23-120		1	308299	02/23/23	02/23/23	MES
Decachlorobiphenyl	79%		%REC	24-120		1	308299	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308299	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308299	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	19	1	308299	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308299	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308299	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308299	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308299	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308299	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308299	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	83%		%REC	19-121		1	308299	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B5-0.5	Lab ID: 479920-025	Collected: 02/20/23 11:09
	Matrix: Soil	

479920-025 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.8**		mg/Kg	0.96	0.72	0.96	308213	02/22/23	02/22/23	THP
Lead	**11**		mg/Kg	0.48	0.088	0.96	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.98	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.6	0.98	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.98	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.98	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.98	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.8	5.0	0.98	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	98	14	0.98	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.98	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	72%		%REC	23-120		0.98	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	84%		%REC	24-120		0.98	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	49	22	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	49	18	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	49	17	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	49	21	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	49	6.4	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	49	24	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	49	16	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	49	13	0.98	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	81%		%REC	19-121	24	0.98	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B5-2	Lab ID: 479920-026	Collected: 02/20/23 11:09
	Matrix: Soil	

479920-026 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.1**		mg/Kg	1.0	0.75	1	308213	02/22/23	02/22/23	THP
Lead	**8.6**		mg/Kg	0.50	0.091	1	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308301	02/23/23	02/23/23	MES
beta-BHC	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/23/23	MES
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308301	02/23/23	02/23/23	MES
delta-BHC	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
Heptachlor	ND		ug/Kg	5.0	1.5	1	308301	02/23/23	02/23/23	MES
Aldrin	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/23/23	MES
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308301	02/23/23	02/23/23	MES
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
Dieldrin	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
Endrin	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/23/23	MES
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/23/23	MES
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/23/23	MES
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308301	02/23/23	02/23/23	MES
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/23/23	MES
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/23/23	MES
Methoxychlor	ND		ug/Kg	20	5.1	1	308301	02/23/23	02/23/23	MES
Toxaphene	ND		ug/Kg	100	15	1	308301	02/23/23	02/23/23	MES
Chlordane (Technical)	ND		ug/Kg	50	11	1	308301	02/23/23	02/23/23	MES
Surrogates				**Limits**						
TCMX	68%		%REC	23-120		1	308301	02/23/23	02/23/23	MES
Decachlorobiphenyl	47%		%REC	24-120		1	308301	02/23/23	02/23/23	MES
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308301	02/23/23	02/23/23	MES
Aroclor-1221	ND		ug/Kg	50	23	1	308301	02/23/23	02/23/23	MES
Aroclor-1232	ND		ug/Kg	50	19	1	308301	02/23/23	02/23/23	MES
Aroclor-1242	ND		ug/Kg	50	18	1	308301	02/23/23	02/23/23	MES
Aroclor-1248	ND		ug/Kg	50	21	1	308301	02/23/23	02/23/23	MES
Aroclor-1254	ND		ug/Kg	50	6.6	1	308301	02/23/23	02/23/23	MES
Aroclor-1260	ND		ug/Kg	50	24	1	308301	02/23/23	02/23/23	MES
Aroclor-1262	ND		ug/Kg	50	16	1	308301	02/23/23	02/23/23	MES
Aroclor-1268	ND		ug/Kg	50	13	1	308301	02/23/23	02/23/23	MES
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	46%		%REC	19-121		1	308301	02/23/23	02/23/23	MES

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B6-0.5	Lab ID: 479920-028	Collected: 02/20/23 11:17
	Matrix: Soil	

479920-028 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**8.7**		mg/Kg	0.95	0.72	0.95	308213	02/22/23	02/22/23	THP
Lead	**8.4**		mg/Kg	0.48	0.087	0.95	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	70%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	76%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	49	22	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	49	21	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	49	6.5	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	49	24	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	49	16	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	49	13	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	73%		%REC	19-121	24	0.99	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B6-2	Lab ID: 479920-029	Collected: 02/20/23 11:17
	Matrix: Soil	

479920-029 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**10**		mg/Kg	0.97	0.73	0.97	308213	02/22/23	02/22/23	THP
Lead	**9.8**		mg/Kg	0.49	0.089	0.97	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	69%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	83%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	49	22	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	49	21	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	49	6.5	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	49	24	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	49	16	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	49	13	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	80%		%REC	19-121	24	0.99	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: EBLANK	Lab ID: 479920-031	Collected: 02/20/23 11:20
	Matrix: Water	

479920-031 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 200.8										
Arsenic	ND		ug/L	2.0	0.037	1	308187	02/22/23	02/22/23	JCP
Lead	ND		ug/L	5.0	0.038	1	308187	02/22/23	02/22/23	JCP
Method: EPA 8081A Prep Method: EPA 3510C										
alpha-BHC	ND		ug/L	0.05	0.01	0.94	308045	02/22/23	02/22/23	TRN
beta-BHC	ND		ug/L	0.05	0.008	0.94	308045	02/22/23	02/22/23	TRN
gamma-BHC	ND		ug/L	0.05	0.01	0.94	308045	02/22/23	02/22/23	TRN
delta-BHC	ND		ug/L	0.05	0.007	0.94	308045	02/22/23	02/22/23	TRN
Heptachlor	ND		ug/L	0.05	0.01	0.94	308045	02/22/23	02/22/23	TRN
Aldrin	ND		ug/L	0.05	0.02	0.94	308045	02/22/23	02/22/23	TRN
Heptachlor epoxide	ND		ug/L	0.05	0.01	0.94	308045	02/22/23	02/22/23	TRN
Endosulfan I	ND		ug/L	0.05	0.01	0.94	308045	02/22/23	02/22/23	TRN
Dieldrin	ND		ug/L	0.09	0.01	0.94	308045	02/22/23	02/22/23	TRN
4,4'-DDE	ND		ug/L	0.09	0.01	0.94	308045	02/22/23	02/22/23	TRN
Endrin	ND		ug/L	0.09	0.01	0.94	308045	02/22/23	02/22/23	TRN
Endosulfan II	ND		ug/L	0.09	0.02	0.94	308045	02/22/23	02/22/23	TRN
Endosulfan sulfate	ND		ug/L	0.09	0.02	0.94	308045	02/22/23	02/22/23	TRN
4,4'-DDD	ND		ug/L	0.09	0.03	0.94	308045	02/22/23	02/22/23	TRN
Endrin aldehyde	ND		ug/L	0.09	0.02	0.94	308045	02/22/23	02/22/23	TRN
Endrin ketone	ND		ug/L	0.09	0.02	0.94	308045	02/22/23	02/22/23	TRN
4,4'-DDT	ND		ug/L	0.09	0.02	0.94	308045	02/22/23	02/22/23	TRN
Methoxychlor	ND		ug/L	0.2	0.03	0.94	308045	02/22/23	02/22/23	TRN
Toxaphene	ND		ug/L	1.9	0.3	0.94	308045	02/22/23	02/22/23	TRN
Chlordane (Technical)	ND		ug/L	0.9	0.3	0.94	308045	02/22/23	02/22/23	TRN
Surrogates				**Limits**						
TCMX	81%		%REC	14-120		0.94	308045	02/22/23	02/22/23	TRN
Decachlorobiphenyl	97%		%REC	20-120		0.94	308045	02/22/23	02/22/23	TRN
Method: EPA 8082 Prep Method: EPA 3510C										
Aroclor-1016	ND		ug/L	0.47	0.14	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1221	ND		ug/L	0.47	0.47	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1232	ND		ug/L	0.47	0.47	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1242	ND		ug/L	0.47	0.16	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1248	ND		ug/L	0.47	0.47	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1254	ND		ug/L	0.47	0.26	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1260	ND		ug/L	0.47	0.19	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1262	ND		ug/L	0.47	0.47	0.94	308045	02/22/23	02/22/23	TRN
Aroclor-1268	ND		ug/L	0.47	0.12	0.94	308045	02/22/23	02/22/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	96%		%REC	18-126		0.94	308045	02/22/23	02/22/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

479920-031 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
3-Chloropropene	ND		ug/L	5.0	0.7	1	308126	02/22/23	02/22/23	EJB
Freon 12	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Chloromethane	ND		ug/L	5.0	0.4	1	308126	02/22/23	02/22/23	EJB
Vinyl Chloride	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromomethane	ND		ug/L	5.0	0.4	1	308126	02/22/23	02/22/23	EJB
Chloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Trichlorofluoromethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Acetone	ND		ug/L	100	6.8	1	308126	02/22/23	02/22/23	EJB
Freon 113	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Methylene Chloride	ND		ug/L	5.0	2.9	1	308126	02/22/23	02/22/23	EJB
MTBE	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
2-Butanone	ND		ug/L	100	0.8	1	308126	02/22/23	02/22/23	EJB
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
2,2-Dichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Chloroform	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromochloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1,1-Trichloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloropropene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Carbon Tetrachloride	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Benzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Trichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Bromodichloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Dibromomethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
4-Methyl-2-Pentanone	ND		ug/L	5.0	0.7	1	308126	02/22/23	02/22/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Toluene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1,2-Trichloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,3-Dichloropropane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Tetrachloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Dibromochloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2-Dibromoethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Chlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Ethylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
m,p-Xylenes	ND		ug/L	10	0.4	1	308126	02/22/23	02/22/23	EJB
o-Xylene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Styrene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Bromoform	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

479920-031 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Isopropylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Propylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
2-Chlorotoluene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
4-Chlorotoluene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
tert-Butylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
sec-Butylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
para-Isopropyl Toluene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,3-Dichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
n-Butylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dichlorobenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dibromo-3-Chloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Hexachlorobutadiene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Naphthalene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
cis-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.8	1	308126	02/22/23	02/22/23	EJB
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Xylene (total)	ND		ug/L	5.0		1	308126	02/22/23	02/22/23	EJB
Surrogates				**Limits**						
Dibromofluoromethane	110%		%REC	70-140	1.7	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloroethane-d4	100%		%REC	70-140		1	308126	02/22/23	02/22/23	EJB
Toluene-d8	99%		%REC	70-140	5.7	1	308126	02/22/23	02/22/23	EJB
Bromofluorobenzene	103%		%REC	70-140		1	308126	02/22/23	02/22/23	EJB

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

Analysis Results for 479920

Sample ID: B10-0.5	Lab ID: 479920-032	Collected: 02/20/23 12:32
	Matrix: Soil	

479920-032 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**10**		mg/Kg	0.95	0.72	0.95	308213	02/22/23	02/22/23	THP
Lead	**10**		mg/Kg	0.48	0.087	0.95	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	1	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	10	5.1	1	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	100	15	1	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	71%		%REC	23-120		1	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	91%		%REC	24-120		1	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B10-2	Lab ID: 479920-033	Collected: 02/20/23 12:32
	Matrix: Soil	

479920-033 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**18**		mg/Kg	0.99	0.74	0.99	308213	02/22/23	02/22/23	THP
Lead	**13**		mg/Kg	0.50	0.090	0.99	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.98	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.6	0.98	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.98	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.98	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.98	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.8	5.0	0.98	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	98	15	0.98	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.98	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	66%		%REC	23-120		0.98	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	71%		%REC	24-120		0.98	308301	02/23/23	02/24/23	TRN

Sample ID: B10-4	Lab ID: 479920-034	Collected: 02/20/23 12:32
	Matrix: Soil	

479920-034 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**17**		mg/Kg	0.97	0.27	0.97	309379	03/09/23	03/09/23	JCP

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B7-0.5	Lab ID: 479920-035	Collected: 02/20/23 12:32
	Matrix: Soil	

479920-035 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.6**		mg/Kg	0.95	0.72	0.95	308213	02/22/23	02/22/23	THP
Lead	**10**		mg/Kg	0.48	0.087	0.95	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	65%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	72%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	49	22	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	49	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	49	21	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	49	6.5	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	49	24	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	49	16	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	49	13	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	70%		%REC	19-121	24	0.99	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B7-0.5 DUP	Lab ID: 479920-036	Collected: 02/20/23 12:40
	Matrix: Soil	

479920-036 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**9.5**		mg/Kg	1.0	0.75	1	308213	02/22/23	02/22/23	THP
Lead	**9.1**		mg/Kg	0.50	0.091	1	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	1	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	10	5.1	1	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	100	15	1	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	60%		%REC	23-120		1	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	66%		%REC	24-120		1	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	50	23	1	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	50	19	1	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	50	18	1	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	50	21	1	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	50	6.6	1	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	50	24	1	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	50	16	1	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	50	13	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	63%		%REC	19-121	24	1	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B7-2	Lab ID: 479920-037	Collected: 02/20/23 12:40
	Matrix: Soil	

479920-037 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**19**		mg/Kg	0.96	0.72	0.96	308213	02/22/23	02/22/23	THP
Lead	**13**		mg/Kg	0.48	0.088	0.96	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	1	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	10	5.0	1	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	100	15	1	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	70%		%REC	23-120		1	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	81%		%REC	24-120		1	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	1	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	50	23	1	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	50	18	1	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	50	18	1	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	50	21	1	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	50	6.5	1	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	50	24	1	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	50	16	1	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	50	13	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	80%		%REC	19-121	24	1	308301	02/23/23	02/24/23	TRN

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

Analysis Results for 479920

Sample ID: B7-4	Lab ID: 479920-038	Collected: 02/20/23 12:40
	Matrix: Soil	

479920-038 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**16**		mg/Kg	0.93	0.26	0.93	309379	03/09/23	03/09/23	JCP

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B8-0.5	Lab ID: 479920-039	Collected: 02/20/23 12:51
	Matrix: Soil	

479920-039 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**8.7**		mg/Kg	0.96	0.72	0.96	308213	02/22/23	02/22/23	THP
Lead	**8.7**		mg/Kg	0.48	0.088	0.96	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.98	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.7	0.98	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.98	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.98	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.98	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.98	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.98	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.98	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.8	5.0	0.98	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	98	15	0.98	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.98	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	70%		%REC	23-120		0.98	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	76%		%REC	24-120		0.98	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	49	14	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	49	22	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	49	18	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	49	18	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	49	21	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	49	6.5	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	49	24	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	49	16	0.98	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	49	13	0.98	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	73%		%REC	19-121	24	0.98	308301	02/23/23	02/24/23	TRN

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

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B8-2	Lab ID: 479920-040	Collected: 02/20/23 12:51
	Matrix: Soil	

479920-040 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**18**		mg/Kg	0.99	0.74	0.99	308213	02/22/23	02/22/23	THP
Lead	**13**		mg/Kg	0.50	0.090	0.99	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	68%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	76%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	50	22	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	50	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	50	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	50	21	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	50	6.5	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	50	24	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	50	16	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	50	13	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	73%		%REC	19-121	24	0.99	308301	02/23/23	02/24/23	TRN

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

Analysis Results for 479920

Sample ID: B8-4	Lab ID: 479920-041	Collected: 02/20/23 12:51
	Matrix: Soil	

479920-041 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**17**		mg/Kg	0.90	0.25	0.9	309379	03/09/23	03/09/23	JCP

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B9-0.5	Lab ID: 479920-042	Collected: 02/20/23 12:59
	Matrix: Soil	

479920-042 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**2.5**		mg/Kg	0.96	0.72	0.96	308213	02/22/23	02/22/23	THP
Lead	**9.8**		mg/Kg	0.48	0.088	0.96	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	100	24	20	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	100	33	20	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	100	21	20	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	100	27	20	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	100	30	20	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	100	26	20	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	100	36	20	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	100	28	20	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	100	29	20	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	100	29	20	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	100	31	20	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	100	31	20	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	100	32	20	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	100	22	20	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	100	34	20	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	100	28	20	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	100	29	20	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	200	100	20	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	2,000	290	20	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	1,000	220	20	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX		DO	%REC	23-120		20	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl		DO	%REC	24-120		20	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	250	72	5	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	250	110	5	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	250	92	5	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	250	89	5	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	250	110	5	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	250	33	5	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	250	120	5	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	250	82	5	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	250	67	5	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	78%		%REC	19-121	120	5	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B9-2	Lab ID: 479920-043	Collected: 02/20/23 12:59
	Matrix: Soil	

479920-043 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**10**		mg/Kg	0.97	0.73	0.97	308213	02/22/23	02/22/23	THP
Lead	**9.5**		mg/Kg	0.49	0.089	0.97	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	70%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	82%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN
Method: EPA 8082 Prep Method: EPA 3546										
Aroclor-1016	ND		ug/Kg	50	14	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1221	ND		ug/Kg	50	22	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1232	ND		ug/Kg	50	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1242	ND		ug/Kg	50	18	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1248	ND		ug/Kg	50	21	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1254	ND		ug/Kg	50	6.5	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1260	ND		ug/Kg	50	24	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1262	ND		ug/Kg	50	16	0.99	308301	02/23/23	02/24/23	TRN
Aroclor-1268	ND		ug/Kg	50	13	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
Decachlorobiphenyl (PCB)	79%		%REC	19-121	24	0.99	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B11-0.5	Lab ID: 479920-045	Collected: 02/20/23 13:12
	Matrix: Soil	

479920-045 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**8.9**		mg/Kg	0.95	0.72	0.95	308213	02/22/23	02/22/23	THP
Lead	**8.7**		mg/Kg	0.48	0.087	0.95	308213	02/22/23	02/22/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	5.0	1.2	1	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	5.0	1.0	1	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	5.0	1.5	1	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	5.0	1.3	1	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	1	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	1	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	5.0	1.1	1	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	5.0	1.7	1	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	5.0	1.4	1	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	10	5.1	1	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	100	15	1	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	50	11	1	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	73%		%REC	23-120		1	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	79%		%REC	24-120		1	308301	02/23/23	02/24/23	TRN

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: B11-2	Lab ID: 479920-046	Collected: 02/20/23 13:12
	Matrix: Soil	

479920-046 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**13**		mg/Kg	0.98	0.68	0.98	308281	02/23/23	02/23/23	THP
Lead	**12**		mg/Kg	0.49	0.067	0.98	308281	02/23/23	02/23/23	THP
Method: EPA 8081A Prep Method: EPA 3546										
alpha-BHC	ND		ug/Kg	4.9	1.2	0.99	308301	02/23/23	02/24/23	TRN
beta-BHC	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
gamma-BHC	ND		ug/Kg	4.9	1.0	0.99	308301	02/23/23	02/24/23	TRN
delta-BHC	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Aldrin	ND		ug/Kg	4.9	1.3	0.99	308301	02/23/23	02/24/23	TRN
Heptachlor epoxide	ND		ug/Kg	4.9	1.8	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan I	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Dieldrin	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDE	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Endrin	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan II	ND		ug/Kg	4.9	1.5	0.99	308301	02/23/23	02/24/23	TRN
Endosulfan sulfate	ND		ug/Kg	4.9	1.6	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDD	ND		ug/Kg	4.9	1.1	0.99	308301	02/23/23	02/24/23	TRN
Endrin aldehyde	ND		ug/Kg	4.9	1.7	0.99	308301	02/23/23	02/24/23	TRN
Endrin ketone	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
4,4'-DDT	ND		ug/Kg	4.9	1.4	0.99	308301	02/23/23	02/24/23	TRN
Methoxychlor	ND		ug/Kg	9.9	5.0	0.99	308301	02/23/23	02/24/23	TRN
Toxaphene	ND		ug/Kg	99	15	0.99	308301	02/23/23	02/24/23	TRN
Chlordane (Technical)	ND		ug/Kg	49	11	0.99	308301	02/23/23	02/24/23	TRN
Surrogates				**Limits**						
TCMX	74%		%REC	23-120		0.99	308301	02/23/23	02/24/23	TRN
Decachlorobiphenyl	80%		%REC	24-120		0.99	308301	02/23/23	02/24/23	TRN

Sample ID: B11-4	Lab ID: 479920-047	Collected: 02/20/23 13:12
	Matrix: Soil	

479920-047 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 6020 Prep Method: EPA 3050B										
Arsenic	**19**		mg/Kg	0.96	0.27	0.96	309379	03/09/23	03/09/23	JCP

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

Sample ID: TRIP BLANK	Lab ID: 479920-048	Collected: 02/20/23 14:00
	Matrix: Water	

479920-048 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
Method: EPA 8260B Prep Method: EPA 5030B										
3-Chloropropene	ND		ug/L	5.0	0.7	1	308126	02/22/23	02/22/23	EJB
Freon 12	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Chloromethane	ND		ug/L	5.0	0.4	1	308126	02/22/23	02/22/23	EJB
Vinyl Chloride	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromomethane	ND		ug/L	5.0	0.4	1	308126	02/22/23	02/22/23	EJB
Chloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Trichlorofluoromethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Acetone	ND		ug/L	100	6.8	1	308126	02/22/23	02/22/23	EJB
Freon 113	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Methylene Chloride	ND		ug/L	5.0	2.9	1	308126	02/22/23	02/22/23	EJB
MTBE	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
2-Butanone	ND		ug/L	100	0.8	1	308126	02/22/23	02/22/23	EJB
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
2,2-Dichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Chloroform	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromochloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1,1-Trichloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1-Dichloropropene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Carbon Tetrachloride	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Benzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Trichloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Bromodichloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Dibromomethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
4-Methyl-2-Pentanone	ND		ug/L	5.0	0.7	1	308126	02/22/23	02/22/23	EJB
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Toluene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1,2-Trichloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,3-Dichloropropane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Tetrachloroethene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Dibromochloromethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2-Dibromoethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Chlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Ethylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB

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

ENTHALPY ANALYTICAL

Analysis Results for 479920

479920-048 Analyte	Result	Qual	Units	RL	MDL	DF	Batch	Prepared	Analyzed	Chemist
m,p-Xylenes	ND		ug/L	10	0.4	1	308126	02/22/23	02/22/23	EJB
o-Xylene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Styrene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Bromoform	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Isopropylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Propylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Bromobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,3,5-Trimethylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
2-Chlorotoluene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
4-Chlorotoluene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
tert-Butylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,4-Trimethylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
sec-Butylbenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
para-Isopropyl Toluene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,3-Dichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
n-Butylbenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dichlorobenzene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
1,2-Dibromo-3-Chloropropane	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Hexachlorobutadiene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
Naphthalene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
1,2,3-Trichlorobenzene	ND		ug/L	5.0	0.3	1	308126	02/22/23	02/22/23	EJB
cis-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.8	1	308126	02/22/23	02/22/23	EJB
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	1	308126	02/22/23	02/22/23	EJB
Xylene (total)	ND		ug/L	5.0		1	308126	02/22/23	02/22/23	EJB
Surrogates				**Limits**						
Dibromofluoromethane	107%		%REC	70-140	1.7	1	308126	02/22/23	02/22/23	EJB
1,2-Dichloroethane-d4	102%		%REC	70-140		1	308126	02/22/23	02/22/23	EJB
Toluene-d8	100%		%REC	70-140	5.7	1	308126	02/22/23	02/22/23	EJB
Bromofluorobenzene	98%		%REC	70-140		1	308126	02/22/23	02/22/23	EJB

DO Diluted Out
J Estimated value
ND Not Detected

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

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID:** QC1047416	**Batch:** 308187
Matrix: Water	**Method:** EPA 6020	**Prep Method:** EPA 200.8

QC1047416 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		ug/L	2.0	0.037	02/22/23	02/22/23
Lead	ND		ug/L	5.0	0.038	02/22/23	02/22/23

Type: Lab Control Sample	**Lab ID:** QC1047417	**Batch:** 308187
Matrix: Water	**Method:** EPA 6020	**Prep Method:** EPA 200.8

QC1047417 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	97.61	100.0	ug/L	98%		80-120
Lead	96.27	100.0	ug/L	96%		80-120

Type: Matrix Spike	**Lab ID:** QC1047418	**Batch:** 308187
Matrix (Source ID): Water (479920-031)	**Method:** EPA 6020	**Prep Method:** EPA 200.8

QC1047418 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	98.69	ND	100.0	ug/L	99%		75-125	1
Lead	97.34	ND	100.0	ug/L	97%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID:** QC1047419	**Batch:** 308187
Matrix (Source ID): Water (479920-031)	**Method:** EPA 6020	**Prep Method:** EPA 200.8

QC1047419 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	96.34	ND	100.0	ug/L	96%		75-125	2	20	1
Lead	95.12	ND	100.0	ug/L	95%		75-125	2	20	1

Type: Blank	**Lab ID:** QC1047349	**Batch:** 308147
Matrix: Soil	**Method:** EPA 6020	**Prep Method:** EPA 3050B

QC1047349 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.75	02/22/23	02/22/23
Lead	ND		mg/Kg	0.50	0.091	02/22/23	02/22/23

Type: Lab Control Sample	**Lab ID:** QC1047350	**Batch:** 308147
Matrix: Soil	**Method:** EPA 6020	**Prep Method:** EPA 3050B

QC1047350 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	49.37	50.00	mg/Kg	99%		80-120
Lead	48.21	50.00	mg/Kg	96%		80-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1047351**	**Batch:**	**308147**
Matrix (Source ID):	**Soil (479807-005)**	**Method:**	**EPA 6020**	**Prep Method:**	**EPA 3050B**

QC1047351 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	49.44	2.175	49.50	mg/Kg	95%		75-125	0.99
Lead	52.93	23.15	49.50	mg/Kg	60%	*	75-125	0.99

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1047352**	**Batch:**	**308147**
Matrix (Source ID):	**Soil (479807-005)**	**Method:**	**EPA 6020**	**Prep Method:**	**EPA 3050B**

QC1047352 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	52.84	2.175	49.50	mg/Kg	102%		75-125	7	20	0.99
Lead	62.83	23.15	49.50	mg/Kg	80%		75-125	17	20	0.99

Type:	**Blank**	**Lab ID:**	**QC1047504**	**Batch:**	**308213**
Matrix:	**Soil**	**Method:**	**EPA 6020**	**Prep Method:**	**EPA 3050B**

QC1047504 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.75	02/22/23	02/22/23
Lead	ND		mg/Kg	0.50	0.091	02/22/23	02/22/23

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047505**	**Batch:**	**308213**
Matrix:	**Soil**	**Method:**	**EPA 6020**	**Prep Method:**	**EPA 3050B**

QC1047505 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	48.71	50.00	mg/Kg	97%		80-120
Lead	47.50	50.00	mg/Kg	95%		80-120

Type:	**Matrix Spike**	**Lab ID:**	**QC1047506**	**Batch:**	**308213**
Matrix (Source ID):	**Soil (479920-016)**	**Method:**	**EPA 6020**	**Prep Method:**	**EPA 3050B**

QC1047506 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	57.61	9.902	49.50	mg/Kg	96%		75-125	0.99
Lead	56.99	9.488	49.50	mg/Kg	96%		75-125	0.99

ENTHALPY ANALYTICAL

Batch QC

Type:	Matrix Spike Duplicate	Lab ID:	QC1047507	Batch:	308213
Matrix (Source ID):	Soil (479920-016)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1047507 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	59.11	9.902	49.50	mg/Kg	99%		75-125	3	20	0.99
Lead	57.52	9.488	49.50	mg/Kg	97%		75-125	1	20	0.99

Type:	Blank	Lab ID:	QC1047683	Batch:	308281
Matrix:	Soil	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1047683 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.69	02/23/23	02/23/23
Lead	ND		mg/Kg	0.50	0.068	02/23/23	02/23/23

Type:	Lab Control Sample	Lab ID:	QC1047684	Batch:	308281
Matrix:	Soil	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1047684 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	50.55	50.00	mg/Kg	101%		80-120
Lead	50.52	50.00	mg/Kg	101%		80-120

Type:	Matrix Spike	Lab ID:	QC1047685	Batch:	308281
Matrix (Source ID):	Soil (479920-046)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1047685 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	59.39	13.01	49.02	mg/Kg	95%		75-125	0.98
Lead	58.47	12.12	49.02	mg/Kg	95%		75-125	0.98

Type:	Matrix Spike Duplicate	Lab ID:	QC1047686	Batch:	308281
Matrix (Source ID):	Soil (479920-046)	Method:	EPA 6020	Prep Method:	EPA 3050B

QC1047686 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	62.25	13.01	49.50	mg/Kg	99%		75-125	4	20	0.99
Lead	59.99	12.12	49.50	mg/Kg	97%		75-125	2	20	0.99

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	**Lab ID: QC1051041**	**Batch: 309379**
Matrix: Soil	**Method: EPA 6020**	**Prep Method: EPA 3050B**

QC1051041 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Arsenic	ND		mg/Kg	1.0	0.28	03/09/23	03/09/23
Lead	ND		mg/Kg	0.50	0.068	03/09/23	03/09/23

Type: Lab Control Sample	**Lab ID: QC1051042**	**Batch: 309379**
Matrix: Soil	**Method: EPA 6020**	**Prep Method: EPA 3050B**

QC1051042 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Arsenic	50.55	50.00	mg/Kg	101%		80-120
Lead	50.13	50.00	mg/Kg	100%		80-120

Type: Matrix Spike	**Lab ID: QC1051043**	**Batch: 309379**
Matrix (Source ID): Soil (479920-047)	**Method: EPA 6020**	**Prep Method: EPA 3050B**

QC1051043 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Arsenic	69.11	18.52	51.02	mg/Kg	99%		75-125	1
Lead	63.32	13.17	51.02	mg/Kg	98%		75-125	1

Type: Matrix Spike Duplicate	**Lab ID: QC1051044**	**Batch: 309379**
Matrix (Source ID): Soil (479920-047)	**Method: EPA 6020**	**Prep Method: EPA 3050B**

QC1051044 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Arsenic	68.15	18.52	50.00	mg/Kg	99%		75-125	0	20	1
Lead	62.61	13.17	50.00	mg/Kg	99%		75-125	0	20	1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1047020	Batch: 308045
Matrix: Water		

QC1047020 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3510C							
alpha-BHC	ND		ug/L	0.05	0.01	02/21/23	02/22/23
beta-BHC	ND		ug/L	0.05	0.008	02/21/23	02/22/23
gamma-BHC	ND		ug/L	0.05	0.01	02/21/23	02/22/23
delta-BHC	ND		ug/L	0.05	0.007	02/21/23	02/22/23
Heptachlor	ND		ug/L	0.05	0.01	02/21/23	02/22/23
Aldrin	ND		ug/L	0.05	0.02	02/21/23	02/22/23
Heptachlor epoxide	ND		ug/L	0.05	0.01	02/21/23	02/22/23
Endosulfan I	ND		ug/L	0.05	0.01	02/21/23	02/22/23
Dieldrin	ND		ug/L	0.1	0.01	02/21/23	02/22/23
4,4'-DDE	ND		ug/L	0.1	0.01	02/21/23	02/22/23
Endrin	ND		ug/L	0.1	0.02	02/21/23	02/22/23
Endosulfan II	ND		ug/L	0.1	0.02	02/21/23	02/22/23
Endosulfan sulfate	ND		ug/L	0.1	0.02	02/21/23	02/22/23
4,4'-DDD	ND		ug/L	0.1	0.03	02/21/23	02/22/23
Endrin aldehyde	ND		ug/L	0.1	0.02	02/21/23	02/22/23
Endrin ketone	ND		ug/L	0.1	0.02	02/21/23	02/22/23
4,4'-DDT	ND		ug/L	0.1	0.02	02/21/23	02/22/23
Methoxychlor	ND		ug/L	0.2	0.03	02/21/23	02/22/23
Toxaphene	ND		ug/L	2.0	0.3	02/21/23	02/22/23
Chlordane (Technical)	ND		ug/L	1.0	0.3	02/21/23	02/22/23
Surrogates				**Limits**			
TCMX	69%		%REC	14-120		02/21/23	02/22/23
Decachlorobiphenyl	75%		%REC	20-120		02/21/23	02/22/23
Method: EPA 8082 Prep Method: EPA 3510C							
Aroclor-1016	ND		ug/L	0.50	0.15	02/21/23	02/22/23
Aroclor-1221	ND		ug/L	0.50	0.50	02/21/23	02/22/23
Aroclor-1232	ND		ug/L	0.50	0.50	02/21/23	02/22/23
Aroclor-1242	ND		ug/L	0.50	0.17	02/21/23	02/22/23
Aroclor-1248	ND		ug/L	0.50	0.50	02/21/23	02/22/23
Aroclor-1254	ND		ug/L	0.50	0.27	02/21/23	02/22/23
Aroclor-1260	ND		ug/L	0.50	0.20	02/21/23	02/22/23
Aroclor-1262	ND		ug/L	0.50	0.50	02/21/23	02/22/23
Aroclor-1268	ND		ug/L	0.50	0.12	02/21/23	02/22/23
Surrogates				**Limits**			
Decachlorobiphenyl (PCB)	74%		%REC	18-126		02/21/23	02/22/23

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample	**Lab ID: QC1047158**	**Batch: 308045**
Matrix: Water	**Method: EPA 8081A**	**Prep Method: EPA 3510C**

QC1047158 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	0.3981	0.5000	ug/L	80%		53-120
beta-BHC	0.4167	0.5000	ug/L	83%		59-120
gamma-BHC	0.4034	0.5000	ug/L	81%		54-120
delta-BHC	0.4166	0.5000	ug/L	83%		58-120
Heptachlor	0.4048	0.5000	ug/L	81%		49-120
Aldrin	0.3688	0.5000	ug/L	74%		47-120
Heptachlor epoxide	0.4243	0.5000	ug/L	85%		53-120
Endosulfan I	0.3980	0.5000	ug/L	80%		56-120
Dieldrin	0.4139	0.5000	ug/L	83%		55-120
4,4'-DDE	0.4240	0.5000	ug/L	85%		55-120
Endrin	0.4495	0.5000	ug/L	90%		57-120
Endosulfan II	0.4121	0.5000	ug/L	82%		58-120
Endosulfan sulfate	0.4142	0.5000	ug/L	83%		56-120
4,4'-DDD	0.4054	0.5000	ug/L	81%		53-120
Endrin aldehyde	0.3653	0.5000	ug/L	73%		45-120
Endrin ketone	0.3925	0.5000	ug/L	78%		61-120
4,4'-DDT	0.4193	0.5000	ug/L	84%		58-120
Methoxychlor	0.4369	0.5000	ug/L	87%		54-120
Surrogates						
TCMX	0.3770	0.5000	ug/L	75%		14-120
Decachlorobiphenyl	0.4064	0.5000	ug/L	81%		20-120

ENTHALPY ANALYTICAL

Batch QC

Type: Lab Control Sample Duplicate	Lab ID: QC1047159	Batch: 308045
Matrix: Water	Method: EPA 8081A	Prep Method: EPA 3510C

QC1047159 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
alpha-BHC	0.4221	0.5000	ug/L	84%		53-120	6	20
beta-BHC	0.4407	0.5000	ug/L	88%		59-120	6	20
gamma-BHC	0.4119	0.5000	ug/L	82%		54-120	2	20
delta-BHC	0.4369	0.5000	ug/L	87%		58-120	5	20
Heptachlor	0.4245	0.5000	ug/L	85%		49-120	5	20
Aldrin	0.3852	0.5000	ug/L	77%		47-120	4	20
Heptachlor epoxide	0.4465	0.5000	ug/L	89%		53-120	5	20
Endosulfan I	0.4220	0.5000	ug/L	84%		56-120	6	20
Dieldrin	0.4527	0.5000	ug/L	91%		55-120	9	20
4,4'-DDE	0.4496	0.5000	ug/L	90%		55-120	6	20
Endrin	0.4715	0.5000	ug/L	94%		57-120	5	20
Endosulfan II	0.4384	0.5000	ug/L	88%		58-120	6	20
Endosulfan sulfate	0.4396	0.5000	ug/L	88%		56-120	6	20
4,4'-DDD	0.4313	0.5000	ug/L	86%		53-120	6	20
Endrin aldehyde	0.3910	0.5000	ug/L	78%		45-120	7	20
Endrin ketone	0.4213	0.5000	ug/L	84%		61-120	7	20
4,4'-DDT	0.4427	0.5000	ug/L	89%		58-120	5	20
Methoxychlor	0.4713	0.5000	ug/L	94%		54-120	8	20
Surrogates								
TCMX	0.3893	0.5000	ug/L	78%		14-120		
Decachlorobiphenyl	0.4364	0.5000	ug/L	87%		20-120		

Type: Lab Control Sample	Lab ID: QC1047160	Batch: 308045
Matrix: Water	Method: EPA 8082	Prep Method: EPA 3510C

QC1047160 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	3.758	5.000	ug/L	75%		36-143
Aroclor-1260	4.357	5.000	ug/L	87%		31-153
Surrogates						
Decachlorobiphenyl (PCB)	0.4260	0.5000	ug/L	85%		18-126

Type: Lab Control Sample Duplicate	Lab ID: QC1047161	Batch: 308045
Matrix: Water	Method: EPA 8082	Prep Method: EPA 3510C

QC1047161 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
Aroclor-1016	3.748	5.000	ug/L	75%		36-143	0	39
Aroclor-1260	4.426	5.000	ug/L	89%		31-153	2	20
Surrogates								
Decachlorobiphenyl (PCB)	0.4503	0.5000	ug/L	90%		18-126		

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1047725	Batch: 308299
Matrix: Soil		

QC1047725 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546							
alpha-BHC	ND		ug/Kg	5.0	1.2	02/23/23	02/23/23
beta-BHC	ND		ug/Kg	5.0	1.7	02/23/23	02/23/23
gamma-BHC	ND		ug/Kg	5.0	1.0	02/23/23	02/23/23
delta-BHC	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Heptachlor	ND		ug/Kg	5.0	1.5	02/23/23	02/23/23
Aldrin	ND		ug/Kg	5.0	1.3	02/23/23	02/23/23
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	02/23/23	02/23/23
Endosulfan I	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Dieldrin	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
4,4'-DDE	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Endrin	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
Endosulfan II	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
4,4'-DDD	ND		ug/Kg	5.0	1.1	02/23/23	02/23/23
Endrin aldehyde	ND		ug/Kg	5.0	1.7	02/23/23	02/23/23
Endrin ketone	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
4,4'-DDT	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Methoxychlor	ND		ug/Kg	10	5.1	02/23/23	02/23/23
Toxaphene	ND		ug/Kg	100	15	02/23/23	02/23/23
Chlordane (Technical)	ND		ug/Kg	50	11	02/23/23	02/23/23
Surrogates				**Limits**			
TCMX	112%		%REC	23-120		02/23/23	02/23/23
Decachlorobiphenyl	109%		%REC	24-120		02/23/23	02/23/23
Method: EPA 8082 Prep Method: EPA 3546							
Aroclor-1016	ND		ug/Kg	50	14	02/23/23	02/23/23
Aroclor-1221	ND		ug/Kg	50	23	02/23/23	02/23/23
Aroclor-1232	ND		ug/Kg	50	19	02/23/23	02/23/23
Aroclor-1242	ND		ug/Kg	50	18	02/23/23	02/23/23
Aroclor-1248	ND		ug/Kg	50	21	02/23/23	02/23/23
Aroclor-1254	ND		ug/Kg	50	6.6	02/23/23	02/23/23
Aroclor-1260	ND		ug/Kg	50	24	02/23/23	02/23/23
Aroclor-1262	ND		ug/Kg	50	16	02/23/23	02/23/23
Aroclor-1268	ND		ug/Kg	50	13	02/23/23	02/23/23
Surrogates				**Limits**			
Decachlorobiphenyl (PCB)	90%		%REC	19-121		02/23/23	02/23/23

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047726**	**Batch:**	**308299**
Matrix:	**Soil**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047726 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	50.62	49.90	ug/Kg	101%		22-129
beta-BHC	48.51	49.90	ug/Kg	97%		28-125
gamma-BHC	50.56	49.90	ug/Kg	101%		22-128
delta-BHC	50.50	49.90	ug/Kg	101%		24-131
Heptachlor	49.96	49.90	ug/Kg	100%		18-124
Aldrin	40.54	49.90	ug/Kg	81%		23-120
Heptachlor epoxide	51.08	49.90	ug/Kg	102%		26-120
Endosulfan I	51.69	49.90	ug/Kg	104%		25-126
Dieldrin	51.80	49.90	ug/Kg	104%		23-124
4,4'-DDE	51.95	49.90	ug/Kg	104%		28-121
Endrin	55.49	49.90	ug/Kg	111%		25-127
Endosulfan II	51.38	49.90	ug/Kg	103%		29-121
Endosulfan sulfate	48.72	49.90	ug/Kg	98%		30-121
4,4'-DDD	54.22	49.90	ug/Kg	109%		26-120
Endrin aldehyde	32.09	49.90	ug/Kg	64%	#	10-120
Endrin ketone	50.12	49.90	ug/Kg	100%	#	28-125
4,4'-DDT	48.70	49.90	ug/Kg	98%		22-125
Methoxychlor	51.59	49.90	ug/Kg	103%		28-130
Surrogates						
TCMX	46.81	49.90	ug/Kg	94%		23-120
Decachlorobiphenyl	44.44	49.90	ug/Kg	89%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1047727**	**Batch:**	**308299**
Matrix (Source ID):	**Soil (479913-001)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047727 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	36.25	2.579	49.02	ug/Kg	69%		46-120	2
beta-BHC	37.29	ND	49.02	ug/Kg	76%		41-120	2
gamma-BHC	37.21	2.194	49.02	ug/Kg	71%		41-120	2
delta-BHC	35.58	ND	49.02	ug/Kg	73%		38-123	2
Heptachlor	39.28	ND	49.02	ug/Kg	80%		39-120	2
Aldrin	34.64	ND	49.02	ug/Kg	71%		34-120	2
Heptachlor epoxide	37.44	ND	49.02	ug/Kg	76%		43-120	2
Endosulfan I	37.47	ND	49.02	ug/Kg	76%		45-120	2
Dieldrin	35.92	ND	49.02	ug/Kg	73%		45-120	2
4,4'-DDE	36.97	ND	49.02	ug/Kg	75%		34-120	2
Endrin	39.61	ND	49.02	ug/Kg	81%		40-120	2
Endosulfan II	38.01	ND	49.02	ug/Kg	78%		41-120	2
Endosulfan sulfate	36.46	ND	49.02	ug/Kg	74%		42-120	2
4,4'-DDD	36.53	ND	49.02	ug/Kg	75%		41-120	2
Endrin aldehyde	28.62	ND	49.02	ug/Kg	58%		30-120	2
Endrin ketone	38.01	ND	49.02	ug/Kg	78%		45-120	2
4,4'-DDT	37.31	ND	49.02	ug/Kg	76%		35-127	2
Methoxychlor	42.30	ND	49.02	ug/Kg	86%		42-136	2
Surrogates								
TCMX	35.19		49.02	ug/Kg	72%		23-120	2
Decachlorobiphenyl	50.23		49.02	ug/Kg	102%		24-120	2

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1047728**	**Batch:**	**308299**
Matrix (Source ID):	**Soil (479913-001)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047728 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	30.81	2.579	49.55	ug/Kg	57%		46-120	17	30	2
beta-BHC	32.75	ND	49.55	ug/Kg	66%		41-120	14	30	2
gamma-BHC	31.19	2.194	49.55	ug/Kg	59%		41-120	19	30	2
delta-BHC	29.28	ND	49.55	ug/Kg	59%		38-123	21	30	2
Heptachlor	32.35	ND	49.55	ug/Kg	65%		39-120	20	30	2
Aldrin	30.78	ND	49.55	ug/Kg	62%		34-120	13	30	2
Heptachlor epoxide	33.47	ND	49.55	ug/Kg	68%		43-120	12	30	2
Endosulfan I	33.81	ND	49.55	ug/Kg	68%		45-120	11	30	2
Dieldrin	32.00	ND	49.55	ug/Kg	65%		45-120	13	30	2
4,4'-DDE	33.06	ND	49.55	ug/Kg	67%		34-120	12	30	2
Endrin	34.52	ND	49.55	ug/Kg	70%		40-120	15	30	2
Endosulfan II	32.76	ND	49.55	ug/Kg	66%		41-120	16	30	2
Endosulfan sulfate	31.49	ND	49.55	ug/Kg	64%		42-120	16	30	2
4,4'-DDD	31.99	ND	49.55	ug/Kg	65%		41-120	14	30	2
Endrin aldehyde	22.15	ND	49.55	ug/Kg	45%		30-120	27	30	2
Endrin ketone	32.81	ND	49.55	ug/Kg	66%		45-120	16	30	2
4,4'-DDT	27.50	ND	49.55	ug/Kg	55%		35-127	31*	30	2
Methoxychlor	36.54	ND	49.55	ug/Kg	74%		42-136	16	30	2
Surrogates										
TCMX	31.40		49.55	ug/Kg	63%		23-120			2
Decachlorobiphenyl	46.38		49.55	ug/Kg	94%		24-120			2

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047729**	**Batch:**	**308299**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047729 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	388.8	497.5	ug/Kg	78%		14-150
Aroclor-1260	419.0	497.5	ug/Kg	84%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	40.03	49.75	ug/Kg	80%		19-121

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1047730**	**Batch:**	**308299**
Matrix (Source ID):	**Soil (479913-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047730 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	339.0	ND	499.5	ug/Kg	68%		42-127	1
Aroclor-1260	386.1	ND	499.5	ug/Kg	77%		38-130	1
Surrogates								
Decachlorobiphenyl (PCB)	35.85		49.95	ug/Kg	72%		19-121	1

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1047731**	**Batch:**	**308299**
Matrix (Source ID):	**Soil (479913-001)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047731 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	380.4	ND	500.0	ug/Kg	76%		42-127	11	30	1
Aroclor-1260	414.3	ND	500.0	ug/Kg	83%		38-130	7	30	1
Surrogates										
Decachlorobiphenyl (PCB)	38.41		50.00	ug/Kg	77%		19-121			1

ENTHALPY ANALYTICAL

Batch QC

Type: Blank	Lab ID: QC1047732	Batch: 308301
Matrix: Soil		

QC1047732 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Method: EPA 8081A Prep Method: EPA 3546							
alpha-BHC	ND		ug/Kg	5.0	1.2	02/23/23	02/23/23
beta-BHC	ND		ug/Kg	5.0	1.7	02/23/23	02/23/23
gamma-BHC	ND		ug/Kg	5.0	1.0	02/23/23	02/23/23
delta-BHC	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Heptachlor	ND		ug/Kg	5.0	1.5	02/23/23	02/23/23
Aldrin	ND		ug/Kg	5.0	1.3	02/23/23	02/23/23
Heptachlor epoxide	ND		ug/Kg	5.0	1.8	02/23/23	02/23/23
Endosulfan I	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Dieldrin	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
4,4'-DDE	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Endrin	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
Endosulfan II	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
Endosulfan sulfate	ND		ug/Kg	5.0	1.6	02/23/23	02/23/23
4,4'-DDD	ND		ug/Kg	5.0	1.1	02/23/23	02/23/23
Endrin aldehyde	ND		ug/Kg	5.0	1.7	02/23/23	02/23/23
Endrin ketone	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
4,4'-DDT	ND		ug/Kg	5.0	1.4	02/23/23	02/23/23
Methoxychlor	ND		ug/Kg	20	5.1	02/23/23	02/23/23
Toxaphene	ND		ug/Kg	100	15	02/23/23	02/23/23
Chlordane (Technical)	ND		ug/Kg	50	11	02/23/23	02/23/23
Surrogates				**Limits**			
TCMX	73%		%REC	23-120		02/23/23	02/23/23
Decachlorobiphenyl	54%		%REC	24-120		02/23/23	02/23/23
Method: EPA 8082 Prep Method: EPA 3546							
Aroclor-1016	ND		ug/Kg	50	14	02/23/23	02/24/23
Aroclor-1221	ND		ug/Kg	50	23	02/23/23	02/24/23
Aroclor-1232	ND		ug/Kg	50	19	02/23/23	02/24/23
Aroclor-1242	ND		ug/Kg	50	18	02/23/23	02/24/23
Aroclor-1248	ND		ug/Kg	50	21	02/23/23	02/24/23
Aroclor-1254	ND		ug/Kg	50	6.6	02/23/23	02/24/23
Aroclor-1260	ND		ug/Kg	50	24	02/23/23	02/24/23
Aroclor-1262	ND		ug/Kg	50	16	02/23/23	02/24/23
Aroclor-1268	ND		ug/Kg	50	13	02/23/23	02/24/23
Surrogates				**Limits**			
Decachlorobiphenyl (PCB)	81%		%REC	19-121	24	02/23/23	02/24/23

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047733**	**Batch:**	**308301**
Matrix:	**Soil**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047733 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
alpha-BHC	41.49	49.65	ug/Kg	84%		22-129
beta-BHC	41.99	49.65	ug/Kg	85%		28-125
gamma-BHC	42.50	49.65	ug/Kg	86%		22-128
delta-BHC	42.55	49.65	ug/Kg	86%		24-131
Heptachlor	44.90	49.65	ug/Kg	90%		18-124
Aldrin	36.53	49.65	ug/Kg	74%		23-120
Heptachlor epoxide	43.01	49.65	ug/Kg	87%		26-120
Endosulfan I	43.80	49.65	ug/Kg	88%		25-126
Dieldrin	42.12	49.65	ug/Kg	85%		23-124
4,4'-DDE	45.10	49.65	ug/Kg	91%		28-121
Endrin	43.81	49.65	ug/Kg	88%		25-127
Endosulfan II	45.29	49.65	ug/Kg	91%		29-121
Endosulfan sulfate	45.63	49.65	ug/Kg	92%		30-121
4,4'-DDD	50.10	49.65	ug/Kg	101%		26-120
Endrin aldehyde	34.88	49.65	ug/Kg	70%		10-120
Endrin ketone	48.20	49.65	ug/Kg	97%		28-125
4,4'-DDT	45.16	49.65	ug/Kg	91%		22-125
Methoxychlor	51.95	49.65	ug/Kg	105%		28-130
Surrogates						
TCMX	39.35	49.65	ug/Kg	79%		23-120
Decachlorobiphenyl	44.39	49.65	ug/Kg	89%		24-120

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1047734**	**Batch:**	**308301**
Matrix (Source ID):	**Soil (479920-026)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047734 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
alpha-BHC	36.09	ND	50.00	ug/Kg	72%		46-120	1
beta-BHC	35.53	ND	50.00	ug/Kg	71%		41-120	1
gamma-BHC	36.25	ND	50.00	ug/Kg	73%		41-120	1
delta-BHC	36.20	ND	50.00	ug/Kg	72%		38-123	1
Heptachlor	39.06	ND	50.00	ug/Kg	78%		39-120	1
Aldrin	33.03	ND	50.00	ug/Kg	66%		34-120	1
Heptachlor epoxide	36.64	ND	50.00	ug/Kg	73%		43-120	1
Endosulfan I	38.47	ND	50.00	ug/Kg	77%		45-120	1
Dieldrin	35.99	ND	50.00	ug/Kg	72%		45-120	1
4,4'-DDE	37.67	ND	50.00	ug/Kg	75%		34-120	1
Endrin	37.03	ND	50.00	ug/Kg	74%		40-120	1
Endosulfan II	38.03	ND	50.00	ug/Kg	76%		41-120	1
Endosulfan sulfate	37.66	ND	50.00	ug/Kg	75%		42-120	1
4,4'-DDD	40.71	ND	50.00	ug/Kg	81%		41-120	1
Endrin aldehyde	29.86	ND	50.00	ug/Kg	60%		30-120	1
Endrin ketone	40.51	ND	50.00	ug/Kg	81%		45-120	1
4,4'-DDT	39.58	ND	50.00	ug/Kg	79%		35-127	1
Methoxychlor	45.08	ND	50.00	ug/Kg	90%		42-136	1
Surrogates								
TCMX	34.66		50.00	ug/Kg	69%		23-120	1
Decachlorobiphenyl	38.20		50.00	ug/Kg	76%		24-120	1

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1047735**	**Batch:**	**308301**
Matrix (Source ID):	**Soil (479920-026)**	**Method:**	**EPA 8081A**	**Prep Method:**	**EPA 3546**

QC1047735 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
alpha-BHC	38.20	ND	49.90	ug/Kg	77%		46-120	6	30	1
beta-BHC	39.00	ND	49.90	ug/Kg	78%		41-120	9	30	1
gamma-BHC	38.61	ND	49.90	ug/Kg	77%		41-120	6	30	1
delta-BHC	39.90	ND	49.90	ug/Kg	80%		38-123	10	30	1
Heptachlor	40.28	ND	49.90	ug/Kg	81%		39-120	3	30	1
Aldrin	35.43	ND	49.90	ug/Kg	71%		34-120	7	30	1
Heptachlor epoxide	39.54	ND	49.90	ug/Kg	79%		43-120	8	30	1
Endosulfan I	41.81	ND	49.90	ug/Kg	84%		45-120	9	30	1
Dieldrin	39.75	ND	49.90	ug/Kg	80%		45-120	10	30	1
4,4'-DDE	41.95	ND	49.90	ug/Kg	84%		34-120	11	30	1
Endrin	41.24	ND	49.90	ug/Kg	83%		40-120	11	30	1
Endosulfan II	43.60	ND	49.90	ug/Kg	87%		41-120	14	30	1
Endosulfan sulfate	43.60	ND	49.90	ug/Kg	87%		42-120	15	30	1
4,4'-DDD	47.40	ND	49.90	ug/Kg	95%		41-120	15	30	1
Endrin aldehyde	34.58	ND	49.90	ug/Kg	69%		30-120	15	30	1
Endrin ketone	46.97	ND	49.90	ug/Kg	94%		45-120	15	30	1
4,4'-DDT	45.31	ND	49.90	ug/Kg	91%		35-127	14	30	1
Methoxychlor	57.63	ND	49.90	ug/Kg	115%		42-136	25	30	1
Surrogates										
TCMX	36.75		49.90	ug/Kg	74%		23-120			1
Decachlorobiphenyl	42.07		49.90	ug/Kg	84%		24-120			1

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047736**	**Batch:**	**308301**
Matrix:	**Soil**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047736 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
Aroclor-1016	370.7	499.0	ug/Kg	74%		14-150
Aroclor-1260	400.4	499.0	ug/Kg	80%		10-150
Surrogates						
Decachlorobiphenyl (PCB)	42.96	49.90	ug/Kg	86%		19-121

ENTHALPY ANALYTICAL

Batch QC

Type:	**Matrix Spike**	**Lab ID:**	**QC1047737**	**Batch:**	**308301**
Matrix (Source ID):	**Soil (479920-026)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047737 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	DF
Aroclor-1016	369.5	ND	494.6	ug/Kg	75%		42-127	0.99
Aroclor-1260	378.1	ND	494.6	ug/Kg	76%		38-130	0.99
Surrogates								
Decachlorobiphenyl (PCB)	34.04		49.46	ug/Kg	69%		19-121	0.99

Type:	**Matrix Spike Duplicate**	**Lab ID:**	**QC1047738**	**Batch:**	**308301**
Matrix (Source ID):	**Soil (479920-026)**	**Method:**	**EPA 8082**	**Prep Method:**	**EPA 3546**

QC1047738 Analyte	Result	Source Sample Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim	DF
Aroclor-1016	277.6	ND	499.0	ug/Kg	56%		42-127	29	30	1
Aroclor-1260	228.4	ND	499.0	ug/Kg	46%		38-130	50*	30	1
Surrogates										
Decachlorobiphenyl (PCB)	19.22		49.90	ug/Kg	39%		19-121			1

Type:	**Lab Control Sample**	**Lab ID:**	**QC1047282**	**Batch:**	**308126**
Matrix:	**Water**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1047282 Analyte	Result	Spiked	Units	Recovery	Qual	Limits
1,1-Dichloroethene	53.01	50.00	ug/L	106%		70-135
MTBE	46.07	50.00	ug/L	92%		70-130
Benzene	53.94	50.00	ug/L	108%		70-130
Trichloroethene	54.05	50.00	ug/L	108%		70-130
Toluene	55.31	50.00	ug/L	111%		70-130
Chlorobenzene	54.14	50.00	ug/L	108%		70-130
Surrogates						
Dibromofluoromethane	52.26	50.00	ug/L	105%		70-140
1,2-Dichloroethane-d4	48.04	50.00	ug/L	96%		70-140
Toluene-d8	50.64	50.00	ug/L	101%		70-140
Bromofluorobenzene	49.77	50.00	ug/L	100%		70-140

ENTHALPY ANALYTICAL

Batch QC

Type:	**Lab Control Sample Duplicate**	**Lab ID:**	**QC1047283**	**Batch:**	**308126**
Matrix:	**Water**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1047283 Analyte	Result	Spiked	Units	Recovery	Qual	Limits	RPD	RPD Lim
1,1-Dichloroethene	46.57	50.00	ug/L	93%		70-135	13	30
MTBE	40.53	50.00	ug/L	81%		70-130	13	30
Benzene	46.88	50.00	ug/L	94%		70-130	14	30
Trichloroethene	46.64	50.00	ug/L	93%		70-130	15	30
Toluene	47.79	50.00	ug/L	96%		70-130	15	30
Chlorobenzene	46.52	50.00	ug/L	93%		70-130	15	30
Surrogates								
Dibromofluoromethane	50.88	50.00	ug/L	102%		70-140		
1,2-Dichloroethane-d4	47.92	50.00	ug/L	96%		70-140		
Toluene-d8	50.21	50.00	ug/L	100%		70-140		
Bromofluorobenzene	49.85	50.00	ug/L	100%		70-140		

ENTHALPY ANALYTICAL

Batch QC

Type:	**Blank**	**Lab ID:**	**QC1047286**	**Batch:**	**308126**
Matrix:	**Water**	**Method:**	**EPA 8260B**	**Prep Method:**	**EPA 5030B**

QC1047286 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
3-Chloropropene	ND		ug/L	5.0	0.7	02/22/23	02/22/23
Freon 12	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Chloromethane	ND		ug/L	5.0	0.4	02/22/23	02/22/23
Vinyl Chloride	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Bromomethane	ND		ug/L	5.0	0.4	02/22/23	02/22/23
Chloroethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Trichlorofluoromethane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Acetone	ND		ug/L	100	6.8	02/22/23	02/22/23
Freon 113	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,1-Dichloroethene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Methylene Chloride	ND		ug/L	5.0	2.9	02/22/23	02/22/23
MTBE	ND		ug/L	5.0	0.3	02/22/23	02/22/23
trans-1,2-Dichloroethene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,1-Dichloroethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
2-Butanone	ND		ug/L	100	0.8	02/22/23	02/22/23
cis-1,2-Dichloroethene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
2,2-Dichloropropane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Chloroform	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Bromochloromethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,1,1-Trichloroethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,1-Dichloropropene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Carbon Tetrachloride	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,2-Dichloroethane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Benzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Trichloroethene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,2-Dichloropropane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Bromodichloromethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Dibromomethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
4-Methyl-2-Pentanone	ND		ug/L	5.0	0.7	02/22/23	02/22/23
cis-1,3-Dichloropropene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Toluene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
trans-1,3-Dichloropropene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,1,2-Trichloroethane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,3-Dichloropropane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Tetrachloroethene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Dibromochloromethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,2-Dibromoethane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Chlorobenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,1,1,2-Tetrachloroethane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Ethylbenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
m,p-Xylenes	ND		ug/L	10	0.4	02/22/23	02/22/23
o-Xylene	ND		ug/L	5.0	0.3	02/22/23	02/22/23

ENTHALPY ANALYTICAL

Batch QC

QC1047286 Analyte	Result	Qual	Units	RL	MDL	Prepared	Analyzed
Styrene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Bromoform	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Isopropylbenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,1,2,2-Tetrachloroethane	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,2,3-Trichloropropane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Propylbenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Bromobenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,3,5-Trimethylbenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
2-Chlorotoluene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
4-Chlorotoluene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
tert-Butylbenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,2,4-Trimethylbenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
sec-Butylbenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
para-Isopropyl Toluene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,3-Dichlorobenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,4-Dichlorobenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
n-Butylbenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,2-Dichlorobenzene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
1,2-Dibromo-3-Chloropropane	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,2,4-Trichlorobenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Hexachlorobutadiene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
Naphthalene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
1,2,3-Trichlorobenzene	ND		ug/L	5.0	0.3	02/22/23	02/22/23
cis-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.8	02/22/23	02/22/23
trans-1,4-Dichloro-2-butene	ND		ug/L	5.0	0.2	02/22/23	02/22/23
Xylene (total)	ND		ug/L	5.0		02/22/23	02/22/23
Surrogates				**Limits**			
Dibromofluoromethane	106%		%REC	70-140	1.7	02/22/23	02/22/23
1,2-Dichloroethane-d4	97%		%REC	70-140		02/22/23	02/22/23
Toluene-d8	100%		%REC	70-140	5.7	02/22/23	02/22/23
Bromofluorobenzene	100%		%REC	70-140		02/22/23	02/22/23

\# CCV drift outside limits; average CCV drift within limits per method requirements

* Value is outside QC limits

ND Not Detected

JONES ENVIRONMENTAL, INC.

714-449-9937
562-646-1611

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
WWW.JONESENV.COM

27 February 2023

Eric Fraske
NV5 (Formerly Alta)
19700 Fairchild Rd., Suite 170
Irvine, CA 92612

Re: Mckinley Elementary School

Enclosed are the results of analyses for samples received by the laboratory on 02/20/23. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Colby Wakeman
Lab Director

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SV1-5	JEI230378-01	Soil Gas	02/20/2023 11:27	02/20/2023 13:50
SV1-15	JEI230378-02	Soil Gas	02/20/2023 11:30	02/20/2023 13:50
SV2-5 REP	JEI230378-03	Soil Gas	02/20/2023 11:57	02/20/2023 13:50
SV2-5	JEI230378-04	Soil Gas	02/20/2023 12:06	02/20/2023 13:50
SV2-15	JEI230378-05	Soil Gas	02/20/2023 12:58	02/20/2023 13:50
SV3-5	JEI230378-06	Soil Gas	02/20/2023 12:28	02/20/2023 13:50
SV3-15	JEI230378-07	Soil Gas	02/20/2023 12:31	02/20/2023 13:50

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

DETECTIONS SUMMARY

Sample ID: SV1-5 **Laboratory ID:** JEI230378-01

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	18	8	µg/m3	EPA 8260	
Bromodichloromethane	53	8	µg/m3	EPA 8260	
Bromoform	10	8	µg/m3	EPA 8260	
Chloroform	163	8	µg/m3	EPA 8260	
Dibromochloromethane	22	8	µg/m3	EPA 8260	
Ethylbenzene	36	8	µg/m3	EPA 8260	
n-Propylbenzene	17	8	µg/m3	EPA 8260	
Tetrachloroethene	13	8	µg/m3	EPA 8260	
Toluene	101	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	75	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	26	8	µg/m3	EPA 8260	
m,p-Xylene	177	16	µg/m3	EPA 8260	
o-Xylene	58	8	µg/m3	EPA 8260	

Sample ID: SV1-15 **Laboratory ID:** JEI230378-02

Analyte	Result	Reporting Limit	Units	Method	Notes
Ethylbenzene	41	8	µg/m3	EPA 8260	
n-Propylbenzene	15	8	µg/m3	EPA 8260	
Tetrachloroethene	690	8	µg/m3	EPA 8260	
Toluene	100	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	85	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	27	8	µg/m3	EPA 8260	
m,p-Xylene	183	16	µg/m3	EPA 8260	
o-Xylene	61	8	µg/m3	EPA 8260	

Sample ID: SV2-5 REP **Laboratory ID:** JEI230378-03

Analyte	Result	Reporting Limit	Units	Method	Notes

Jones Environmental, Inc.

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

Colby Wakeman
Lab Director

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

DETECTIONS SUMMARY

Sample ID: SV2-5 REP **Laboratory ID:** JEI230378-03

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	251	8	µg/m3	EPA 8260	
Bromodichloromethane	29	8	µg/m3	EPA 8260	
Chloroform	111	8	µg/m3	EPA 8260	
Dibromochloromethane	15	8	µg/m3	EPA 8260	
Ethylbenzene	131	8	µg/m3	EPA 8260	
n-Propylbenzene	26	8	µg/m3	EPA 8260	
Tetrachloroethene	10	8	µg/m3	EPA 8260	
Toluene	1270	8	µg/m3	EPA 8260	
Trichloroethene	11	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	82	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	33	8	µg/m3	EPA 8260	
m,p-Xylene	519	16	µg/m3	EPA 8260	
o-Xylene	156	8	µg/m3	EPA 8260	

Sample ID: SV2-5 **Laboratory ID:** JEI230378-04

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	334	8	µg/m3	EPA 8260	
Bromodichloromethane	45	8	µg/m3	EPA 8260	
Chloroform	139	8	µg/m3	EPA 8260	
Dibromochloromethane	17	8	µg/m3	EPA 8260	
Ethylbenzene	164	8	µg/m3	EPA 8260	
n-Propylbenzene	27	8	µg/m3	EPA 8260	
Tetrachloroethene	10	8	µg/m3	EPA 8260	
Toluene	1620	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	97	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	38	8	µg/m3	EPA 8260	
m,p-Xylene	602	16	µg/m3	EPA 8260	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

DETECTIONS SUMMARY

Sample ID: SV2-5 **Laboratory ID:** JEI230378-04

Analyte	Result	Reporting Limit	Units	Method	Notes
o-Xylene	179	8	µg/m3	EPA 8260	

Sample ID: SV2-15 **Laboratory ID:** JEI230378-05

Analyte	Result	Reporting Limit	Units	Method	Notes
Ethylbenzene	50	8	µg/m3	EPA 8260	
n-Propylbenzene	23	8	µg/m3	EPA 8260	
Tetrachloroethene	1330	8	µg/m3	EPA 8260	
Toluene	97	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	107	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	39	8	µg/m3	EPA 8260	
m,p-Xylene	241	16	µg/m3	EPA 8260	
o-Xylene	83	8	µg/m3	EPA 8260	

Sample ID: SV3-5 **Laboratory ID:** JEI230378-06

Analyte	Result	Reporting Limit	Units	Method	Notes
Benzene	751	8	µg/m3	EPA 8260	
Bromodichloromethane	44	8	µg/m3	EPA 8260	
Chloroform	107	8	µg/m3	EPA 8260	
Dibromochloromethane	20	8	µg/m3	EPA 8260	
Ethylbenzene	702	8	µg/m3	EPA 8260	
n-Propylbenzene	100	8	µg/m3	EPA 8260	
Toluene	5060	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	372	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	148	8	µg/m3	EPA 8260	
m,p-Xylene	2540	16	µg/m3	EPA 8260	
o-Xylene	729	8	µg/m3	EPA 8260	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

DETECTIONS SUMMARY

Sample ID: SV3-15 **Laboratory ID:** JEI230378-07

Analyte	Result	Reporting Limit	Units	Method	Notes
Ethylbenzene	31	8	µg/m3	EPA 8260	
n-Propylbenzene	19	8	µg/m3	EPA 8260	
Tetrachloroethene	653	8	µg/m3	EPA 8260	
Toluene	55	8	µg/m3	EPA 8260	
1,2,4-Trimethylbenzene	109	8	µg/m3	EPA 8260	
1,3,5-Trimethylbenzene	36	8	µg/m3	EPA 8260	
m,p-Xylene	148	16	µg/m3	EPA 8260	
o-Xylene	58	8	µg/m3	EPA 8260	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV1-5

JEI230378-01(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	18	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	53	8	µg/m3	"	"		"	"	
Bromoform	10	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	163	8	µg/m3	"	"		"	"	
Dibromochloromethane	22	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	36	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	17	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	13	8	µg/m3	"	"		"	"	
Toluene	101	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	75	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	26	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV1-5

JEI230378-01(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	177	16	µg/m3	"	"		"	"	
o-Xylene	58	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*99.02 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*95.75 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*99.17 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV1-15

JEI230378-02(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	ND	8	µg/m3	"	"		"	"	
Dibromochloromethane	ND	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	41	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	15	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	690	8	µg/m3	"	"		"	"	
Toluene	100	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	85	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	27	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV1-15

JEI230378-02(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	183	16	µg/m3	"	"		"	"	
o-Xylene	61	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*98.14 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*94.64 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*97.99 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-5 REP

JEI230378-03(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	251	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	29	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	111	8	µg/m3	"	"		"	"	
Dibromochloromethane	15	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	131	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	26	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	10	8	µg/m3	"	"		"	"	
Toluene	1270	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	11	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	82	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	33	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-5 REP

JEI230378-03(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	519	16	µg/m3	"	"		"	"	
o-Xylene	156	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*100.33 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*94.53 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*100.46 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-5

JEI230378-04(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	334	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	45	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	139	8	µg/m3	"	"		"	"	
Dibromochloromethane	17	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	164	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	27	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	10	8	µg/m3	"	"		"	"	
Toluene	1620	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	97	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	38	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-5

JEI230378-04(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	602	16	µg/m3	"	"		"	"	
o-Xylene	179	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*99.90 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*92.50 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*99.59 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-15

JEI230378-05(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	ND	8	µg/m3	"	"		"	"	
Dibromochloromethane	ND	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	50	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	23	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	1330	8	µg/m3	"	"		"	"	
Toluene	97	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	107	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	39	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV2-15

JEI230378-05(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	241	16	µg/m3	"	"		"	"	
o-Xylene	83	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*96.73 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*96.16 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*98.79 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV3-5

JEI230378-06(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	751	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	44	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	107	8	µg/m3	"	"		"	"	
Dibromochloromethane	20	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	702	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	100	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	ND	8	µg/m3	"	"		"	"	
Toluene	5060	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	372	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	148	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV3-5

JEI230378-06(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	2540	16	µg/m3	"	"		"	"	
o-Xylene	729	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*99.98 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*90.56 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*99.20 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV3-15

JEI230378-07(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Benzene	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
Bromodichloromethane	ND	8	µg/m3	"	"		"	"	
Bromoform	ND	8	µg/m3	"	"		"	"	
n-Butylbenzene	ND	12	µg/m3	"	"		"	"	
sec-Butylbenzene	ND	12	µg/m3	"	"		"	"	
tert-Butylbenzene	ND	12	µg/m3	"	"		"	"	
Carbon tetrachloride	ND	8	µg/m3	"	"		"	"	
Chlorobenzene	ND	8	µg/m3	"	"		"	"	
Chloroform	ND	8	µg/m3	"	"		"	"	
Dibromochloromethane	ND	8	µg/m3	"	"		"	"	
1,2-Dibromoethane (EDB)	ND	8	µg/m3	"	"		"	"	
1,2-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,3-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
1,4-Dichlorobenzene	ND	16	µg/m3	"	"		"	"	
Freon 12	ND	16	µg/m3	"	"		"	"	
Freon 11	ND	16	µg/m3	"	"		"	"	
Freon 113	ND	16	µg/m3	"	"		"	"	
1,1-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,2-Dichloroethane	ND	8	µg/m3	"	"		"	"	
1,1-Dichloroethene	ND	8	µg/m3	"	"		"	"	
cis-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
trans-1,2-Dichloroethene	ND	8	µg/m3	"	"		"	"	
Ethylbenzene	31	8	µg/m3	"	"		"	"	
Isopropylbenzene	ND	8	µg/m3	"	"		"	"	
4-Isopropyltoluene	ND	8	µg/m3	"	"		"	"	
Methylene chloride	ND	8	µg/m3	"	"		"	"	
Naphthalene	ND	40	µg/m3	"	"		"	"	
n-Propylbenzene	19	8	µg/m3	"	"		"	"	
Styrene	ND	8	µg/m3	"	"		"	"	
1,1,1,2-Tetrachloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2,2-Tetrachloroethane	ND	16	µg/m3	"	"		"	"	
Tetrachloroethene	653	8	µg/m3	"	"		"	"	
Toluene	55	8	µg/m3	"	"		"	"	
1,1,1-Trichloroethane	ND	8	µg/m3	"	"		"	"	
1,1,2-Trichloroethane	ND	8	µg/m3	"	"		"	"	
Trichloroethene	ND	8	µg/m3	"	"		"	"	
1,2,4-Trimethylbenzene	109	8	µg/m3	"	"		"	"	
1,3,5-Trimethylbenzene	36	8	µg/m3	"	"		"	"	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

SV3-15

JEI230378-07(Soil Gas)

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
Volatile Organic Compounds by EPA 8260									
Vinyl chloride	ND	8	µg/m3	1	QC2302350		02/21/23	EPA 8260	
m,p-Xylene	148	16	µg/m3	"	"		"	"	
o-Xylene	58	8	µg/m3	"	"		"	"	
Methyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Ethyl-tert-butylether	ND	40	µg/m3	"	"		"	"	
Di-isopropylether	ND	40	µg/m3	"	"		"	"	
tert-amylmethylether	ND	40	µg/m3	"	"		"	"	
tert-Butylalcohol	ND	400	µg/m3	"	"		"	"	
n-Hexane (LCC)	ND	80	µg/m3	"	"		"	"	
n-Pentane (LCC)	ND	80	µg/m3	"	"		"	"	
Isopropanol (LCC)	ND	80	µg/m3	"	"		"	"	
n-Propanol (LCC)	ND	80	µg/m3	"	"		"	"	
Surrogate: Toluene-d8	*98.56 %*	*60 - 140*							
Surrogate: Dibromofluoromethane	*93.88 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene	*98.28 %*	*60 - 140*							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2302350 - EPA 8260										
CCV 1										
Benzene	10	8	%	10		101	80 - 120		120	
Chlorobenzene	11	8	%	10		106	80 - 120		120	
1,1-Dichloroethene	9	8	%	10		92	80 - 120		120	
cis-1,2-Dichloroethene	9	8	%	10		94	80 - 120		120	
Ethylbenzene	10	8	%	10		96	80 - 120		120	
Tetrachloroethene	9	8	%	10		92	80 - 120		120	
Toluene	10	8	%	10		101	80 - 120		120	
1,1,1-Trichloroethane	9	8	%	10		92	80 - 120		120	
Trichloroethene	9	8	%	10		90	80 - 120		120	
Vinyl chloride	10	8	%	10		103	80 - 120		120	
LCS 1										
Benzene	2.98	8	%	2.5		119	70 - 130			
Chlorobenzene	3.18	8	%	2.5		127	70 - 130			
1,1-Dichloroethene	2.98	8	%	2.5		119	60 - 140			
cis-1,2-Dichloroethene	2.86	8	%	2.5		114	70 - 130			
Ethylbenzene	2.65	8	%	2.5		106	70 - 130			
Tetrachloroethene	2.74	8	%	2.5		110	70 - 130			
Toluene	3.15	8	%	2.5		126	70 - 130			
1,1,1-Trichloroethane	2.65	8	%	2.5		106	70 - 130			
Trichloroethene	2.98	8	%	2.5		119	70 - 130			
Vinyl chloride	3.23	8	%	2.5		129	60 - 140			
Surrogate: Toluene-d8		*99.91 %*		*60 - 140*						
Surrogate: Dibromofluoromethane		*96.57 %*		*60 - 140*						
Surrogate: 4-Bromofluorobenzene		*102.35 %*		*60 - 140*						
LCSD 1										
Benzene	2.94	8	%	2.5		118	70 - 130	1.36	130	
Chlorobenzene	2.99	8	%	2.5		119	70 - 130	6.13	130	
1,1-Dichloroethene	2.80	8	%	2.5		112	60 - 140	6.29	140	
cis-1,2-Dichloroethene	2.80	8	%	2.5		112	70 - 130	1.98	130	

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2302350 - EPA 8260										
LCSD 1										
Ethylbenzene	2.63	8	%	2.5		105	70 - 130	0.76	130	
Tetrachloroethene	2.67	8	%	2.5		107	70 - 130	2.75	130	
Toluene	2.93	8	%	2.5		117	70 - 130	7.33	130	
1,1,1-Trichloroethane	2.49	8	%	2.5		100	70 - 130	6.10	130	
Trichloroethene	2.60	8	%	2.5		104	70 - 130	13.62	130	
Vinyl chloride	2.92	8	%	2.5		117	60 - 140	10.00	140	
Surrogate: Toluene-d8		*97.98 %*	*60 - 140*							
Surrogate: Dibromofluoromethane		*95.29 %*	*60 - 140*							
Surrogate: 4-Bromofluorobenzene		*98.53 %*	*60 - 140*							
Method Blank 1										
Benzene	ND	8	µg/m3							
Bromodichloromethane	ND	8	µg/m3							
Bromoform	ND	8	µg/m3							
n-Butylbenzene	ND	12	µg/m3							
sec-Butylbenzene	ND	12	µg/m3							
tert-Butylbenzene	ND	12	µg/m3							
Carbon tetrachloride	ND	8	µg/m3							
Chlorobenzene	ND	8	µg/m3							
Chloroform	ND	8	µg/m3							
Dibromochloromethane	ND	8	µg/m3							
1,2-Dibromoethane (EDB)	ND	8	µg/m3							
1,2-Dichlorobenzene	ND	16	µg/m3							
1,3-Dichlorobenzene	ND	16	µg/m3							
1,4-Dichlorobenzene	ND	16	µg/m3							
Freon 12	ND	16	µg/m3							
Freon 11	ND	16	µg/m3							
Freon 113	ND	16	µg/m3							
1,1-Dichloroethane	ND	8	µg/m3							
1,2-Dichloroethane	ND	8	µg/m3							
1,1-Dichloroethene	ND	8	µg/m3							
cis-1,2-Dichloroethene	ND	8	µg/m3							
trans-1,2-Dichloroethene	ND	8	µg/m3							
Ethylbenzene	ND	8	µg/m3							
Isopropylbenzene	ND	8	µg/m3							
4-Isopropyltoluene	ND	8	µg/m3							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2302350 - EPA 8260										
Method Blank 1										
Methylene chloride	ND	8	µg/m3							
Naphthalene	ND	40	µg/m3							
n-Propylbenzene	ND	8	µg/m3							
Styrene	ND	8	µg/m3							
1,1,1,2-Tetrachloroethane	ND	8	µg/m3							
1,1,2,2-Tetrachloroethane	ND	16	µg/m3							
Tetrachloroethene	ND	8	µg/m3							
Toluene	ND	8	µg/m3							
1,1,1-Trichloroethane	ND	8	µg/m3							
1,1,2-Trichloroethane	ND	8	µg/m3							
Trichloroethene	ND	8	µg/m3							
1,2,4-Trimethylbenzene	ND	8	µg/m3							
1,3,5-Trimethylbenzene	ND	8	µg/m3							
Vinyl chloride	ND	8	µg/m3							
m,p-Xylene	ND	16	µg/m3							
o-Xylene	ND	8	µg/m3							
Methyl-tert-butylether	ND	40	µg/m3							
Ethyl-tert-butylether	ND	40	µg/m3							
Di-isopropylether	ND	40	µg/m3							
tert-amylmethylether	ND	40	µg/m3							
tert-Butylalcohol	ND	400	µg/m3							
n-Hexane (LCC)	ND	80	µg/m3							
n-Pentane (LCC)	ND	80	µg/m3							
Isopropanol (LCC)	ND	80	µg/m3							
n-Propanol (LCC)	ND	80	µg/m3							
Surrogate: Toluene-d8		*97.09 %*		*60 - 140*						
Surrogate: Dibromofluoromethane		*94.35 %*		*60 - 140*						
Surrogate: 4-Bromofluorobenzene		*94.70 %*		*60 - 140*						
Sample Blank 1										
Benzene	ND	8	µg/m3							
Bromodichloromethane	ND	8	µg/m3							
Bromoform	ND	8	µg/m3							
n-Butylbenzene	ND	12	µg/m3							
sec-Butylbenzene	ND	12	µg/m3							
tert-Butylbenzene	ND	12	µg/m3							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2302350 - EPA 8260										
Sample Blank 1										
Carbon tetrachloride	ND	8	µg/m3							
Chlorobenzene	ND	8	µg/m3							
Chloroform	ND	8	µg/m3							
Dibromochloromethane	ND	8	µg/m3							
1,2-Dibromoethane (EDB)	ND	8	µg/m3							
1,2-Dichlorobenzene	ND	16	µg/m3							
1,3-Dichlorobenzene	ND	16	µg/m3							
1,4-Dichlorobenzene	ND	16	µg/m3							
Freon 12	ND	16	µg/m3							
Freon 11	ND	16	µg/m3							
Freon 113	ND	16	µg/m3							
1,1-Dichloroethane	ND	8	µg/m3							
1,2-Dichloroethane	ND	8	µg/m3							
1,1-Dichloroethene	ND	8	µg/m3							
cis-1,2-Dichloroethene	ND	8	µg/m3							
trans-1,2-Dichloroethene	ND	8	µg/m3							
Ethylbenzene	ND	8	µg/m3							
Isopropylbenzene	ND	8	µg/m3							
4-Isopropyltoluene	ND	8	µg/m3							
Methylene chloride	ND	8	µg/m3							
Naphthalene	ND	40	µg/m3							
n-Propylbenzene	ND	8	µg/m3							
Styrene	ND	8	µg/m3							
1,1,1,2-Tetrachloroethane	ND	8	µg/m3							
1,1,2,2-Tetrachloroethane	ND	16	µg/m3							
Tetrachloroethene	ND	8	µg/m3							
Toluene	ND	8	µg/m3							
1,1,1-Trichloroethane	ND	8	µg/m3							
1,1,2-Trichloroethane	ND	8	µg/m3							
Trichloroethene	ND	8	µg/m3							
1,2,4-Trimethylbenzene	ND	8	µg/m3							
1,3,5-Trimethylbenzene	ND	8	µg/m3							
Vinyl chloride	ND	8	µg/m3							
m,p-Xylene	ND	16	µg/m3							
o-Xylene	ND	8	µg/m3							
Methyl-tert-butylether	ND	40	µg/m3							
Ethyl-tert-butylether	ND	40	µg/m3							

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Volatile Organic Compounds by EPA 8260 - Quality Control

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	%REC Limits	Notes
Batch QC2302350 - EPA 8260										
Sample Blank 1										
Di-isopropylether	ND	40	µg/m3							
tert-amylmethylether	ND	40	µg/m3							
tert-Butylalcohol	ND	400	µg/m3							
n-Hexane (LCC)	ND	80	µg/m3							
n-Pentane (LCC)	ND	80	µg/m3							
Isopropanol (LCC)	ND	80	µg/m3							
n-Propanol (LCC)	ND	80	µg/m3							
Surrogate: Toluene-d8		*96.55 %*		*60 - 140*						
Surrogate: Dibromofluoromethane		*94.59 %*		*60 - 140*						
Surrogate: 4-Bromofluorobenzene		*95.40 %*		*60 - 140*						

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.

11007 FOREST PLACE
SANTA FE SPRINGS, CA 90670
714-449-9937 PHONE
562-646-1611 FAX

NV5 (Formerly Alta)	Project: Mckinley Elementary School	
19700 Fairchild Rd., Suite 170	Project Number: SMSD-23-11335	Reported
Irvine, CA 92612	Project Manager: Eric Fraske	02/27/23 12:08

Notes and Definitions

DET	Analyte DETECTED
ND	Analyte NOT DETECTED at or above the reporting limit
NR	Not Reported
dry	Sample results reported on a dry
RPD	Relative Percent Difference
E	Estimated Concentration; concentration exceeds calibration range.
LCC	Leak Check Compound
MDL	Compound Reported to Method Detection Limit
I	Recovery outside of acceptable limits. LCS/LCSD recoveries and %RSD were within QC limits, therefore data was accepted.

Jones Environmental, Inc.

Colby Wakeman
Lab Director

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

JONES ENVIRONMENTAL, INC.
11007 Forest Pl.
Santa Fe Springs, CA 90670
(714) 449-9937
Fax (714) 449-9685
www.jonesenv.com

Air Chain-of-Custody Record

Lab Use Only
Jones Project # JE1230378
Page 1 of 1

Client: NV5
Client Address: 3777 Long Beach Blvd, Long Beach, CA
Project Name: McKinley Elementary School
Project Address: 2401 Santa Monica Blvd, Santa Monica, CA
Report To: Eric Frashe
Email/Phone:
Sampler: S.L

Date: 02/20/2023
Client Project #: SMSD-23-11335

Purge Rate: 200 cc/min
Shut In Test: (Y) / N

Turn Around Requested
- ☐ Immediate Attention - 200%
- ☐ Rush 24 Hours - 100%
- ☐ Rush 48 Hours - 50%
- ☐ Rush 72 Hours - 25%
- ☐ Rush 96 Hours - 10%
- ☑ Normal - No Surcharge

Summa Canister Size
- ☐ 1L ☐ 6L

Tracer
- ☑ n-pentane
- ☑ n-hexane
- ☑ n-heptane
- ☐ Helium
- ☐ 1,1-DFA
- ☑ n-propane

Report Options
EDD ✓
EDF* - 10% Surcharge ____
*Global ID ____

Gasoline Range Organics
- ☐ Yes ☑ No

Units Requested
- ☑ ug/m3 ☐ ug/L ☐ ppmV

Sample ID	Date Collected	Purge Number	Purge Volume	Laboratory Sample ID	Canister ID	Cannister Start Pressure	Cannister End Pressure	Flow Rate (cc/min)	Sampling Start Time	Sampling End Time	Analysis Requested: TO-15	8260B	Magnehelic Reading (in H_2O)	Number of Containers
SV1-5'	02/20/23	<3	2380	JE1230378-01	01517	-30	-5	<~~200~~	1127	1130		X		1
SV1-15'	02/20/23	<3	2550	JE1230378-02	01805	-30	-5	<~~200~~	1130	1136		X		1
SV2-5 REP	02/20/23	<3	2380	JE1230378-03	01781	-30	-5	<2	1157	1201		X		1
SV2-5 ~~DUP~~	02/20/23	<3	2380	JE1230378-04	01779	-30	-5	<2	1206	1212		X		1
SV-2-15'	02/20/23	<3	2550	JE1230378-05	01823	-30	-5	<2	1158	1204		X		1
SV3-5'	02/20/23	<3	2380	JE1230378-06	01519	-30	-5	<2	1228	1233		X		1
SV3-15'	02/20/23	<3	2550	JE1230378-07	B2415	-30	-5	<2	1231	1238		X		1

Relinquished By (Signature): Ruta Bradzinskiene Date: 02/20/23
Company: NV5 Time: 1243

Relinquished By (Signature): Date: 02/20/23
Company: JONES Time: 1350

Recieved By (Signature): Date: 02/20/23
Company: JONES Time: 1242

Recieved By Laboratory (Signature): Date: 2/20/23
Company: Jones Time: 1350

The delivery of samples and the signature on this Chain of Custody form constitutes authorization to perform the analyses specificied above under the Terms and Conditions set forth

APPENDIX D

Waste Manifests

NON-HAZARDOUS WASTE DATA FORM

NO. 770159

BESI # 353578

GENERATOR

Generator's Name and Mailing Address
SANTA MONICA-MALIBU UNIFIED SCHOOL DISTRICT
FACILITIES IMPROVEMENTS PROJECTS
2828 FOURTH STREET
SANTA MONICA, CA 90405

Generator's Site Address (if different than mailing address)
MCKINLEY ELEMENTARY SCHOOL
2401 SANTA MONICA BLVD.
SANTA MONICA, CA 90404

Generator's Phone: 310-399-5865

Container type removed from site:
☒ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity 1

Container type transported to receiving facility:
☐ Drums ☐ Vacuum Truck ☐ Roll-off Truck ☐ Dump Truck
☐ Other _____
Quantity _____ Volume _____

WASTE DESCRIPTION NON-HAZARDOUS SOLID

GENERATING PROCESS ENVIRONMENTAL SAMPLING

COMPONENTS OF WASTE	PPM	%
1. Soil		90%
2. PPE		0-10%
3.		
4.		

Waste Profile 070128043-17880

PROPERTIES: pH _____ ☐ SOLID ☐ LIQUID ☐ SLUDGE ☐ SLURRY ☐ OTHER _____

HANDLING INSTRUCTIONS: WEAR ALL APPROPRIATE PERSONAL PROTECTIVE CLOTHING.

Generator Printed/Typed Name: ERIC FRANKE FOR SMMUSD
Signature
Month 4 Day 13 Year 23

The Generator certifies that the waste as described is 100% non-hazardous

TRANSPORTER

Transporter 1 Company Name: BELSHIRE
Phone# 949-460-5200

Transporter 1 Printed/Typed Name: PAUL VENEGAS
Signature
Month 4 Day 13 Year 23

Transporter Acknowledgment of Receipt of Materials

Transporter 2 Company Name
Phone#

Transporter 2 Printed/Typed Name
Signature
Month Day Year

Transporter Acknowledgment of Receipt of Materials

RECEIVING FACILITY

Designated Facility Name and Site Address
U.S. ECOLOGY, NEVADA OPERATIONS
HIGHWAY 95, 11 MILES S. OF BEATTY
BEATTY, NV 89003
Phone# 775-553-2203

Printed/Typed Name
Signature
Month Day Year

Designated Facility Owner or Operator: Certification of receipt of materials covered by this data form.

APPENDIX E

Statistical Analysis of Arsenic Data

ENVIRO-TOX services, inc.

Technical Memorandum

Date: April 17, 2023

To: Mr. Eric Fraske
Senior Engineer III
NV5
3777 Long Beach Boulevard, Annex Building
Long Beach, California 90807

From: Heriberto Robles, Ph.D., D.A.B.T.

Subject: ***Statistical Analysis of Soil Arsenic Data***
McKinley Elementary School
Santa Monica, California

At the request of NV5, Enviro-Tox Services, Inc. (Enviro-Tox) conducted a statistical analysis of soil arsenic data collected at the McKinley Elementary School located at 2401 Santa Monica Boulevard in Santa Monica, California (the Site). The objective of the statistical analyses was to determine the upper limit concentration for naturally occurring arsenic in soil at the Site. In accordance with California Department of Toxic Substances Control (DTSC; 2009) guidance, all available soil arsenic data for the Site (Table 1) were included in the statistical analyses.

The statistical methods used in the data evaluation were taken directly from the guidance for setting arsenic soil cleanup goals (DTSC, 2009). The first objective of the statistical analysis is to determine if the soil arsenic data are likely to be drawn from the same population (i.e., all samples collected from a non-contaminated site). For this type of analysis, the DTSC recommends creating normality plots using the available soil arsenic data. Specifically, the DTSC (2009) states that plots should be created using both raw and log-transformed data. The arsenic concentrations should be plotted from the least value to the highest value as the cumulative percent of samples.

Visual inspection of the probability plots yields a determination of an inflection point, which represents a break between the ambient level of arsenic for the Site and the portion of the curve that represents a separate, higher population, which may be a consequence of a release to the environment.

The probability plot of the raw soil arsenic data for the McKinley site is presented in Figure 1. The probability plot for the log-transformed data is shown in Figure 2. As can be seen in Figures 1 and 2, there is a distinct inflection and break point that occurs between arsenic concentrations of 10 milligrams per kilogram (mg/kg) and 13 mg/kg (Figure 1) or at the Log10 arsenic concentration value of 1, which corresponds to 10 mg/kg (Figure 2).

As can be seen from the plots, the data appear to be somewhat linear in the range from 2.5 up to about 10 mg/kg (Figure 2), where a distinct change in slope can be seen. This linear portion of the curve would be representative of ambient arsenic in this typical, urban environment. The inflection points where the slopes change are indicative of a population different from ambient arsenic (i.e., site contamination).

The line breaking points between 10 mg/kg and 13 mg/kg correlate well with the upper bound soil arsenic concentration of 12 mg/kg established for Southern California by the DTSC (2020). Therefore, based on these analyses, it appears that the upper limit soil arsenic background concentration at the Site is around 12.0 mg/kg.

For sites where arsenic soil concentrations exceed ambient, background concentrations, the DTSC (2009) recommends that Risk Control or Risk Management actions be considered to make sure surface soils, or exposed soils, do not contain arsenic at concentrations higher than natural, background concentrations. Soil samples collected at the Site found to contain arsenic at concentrations higher than 12 mg/kg included samples B7-2, B7-4, B8-2, B8-4, B10-2, B10-4, B11-2, and B11-4 (Table 1).

Enviro-Tox recommends that surface soil samples be collected at the locations deemed to contain arsenic-impacted soils. Then, if arsenic-impacted soils are found at the soil surface, Engineering or Administrative Controls should be implemented to prevent exposure to those arsenic-impacted soils. If soils are to be disturbed during redevelopment or remediation, step-out samples are recommended around the samples containing arsenic at concentrations higher than 12 mg/kg. Arsenic-impacted soils can be reused at the Site, provided those soils are located under at least 3 feet of clean soil.

References

DTSC. 2009. Arsenic Strategies, Determination of Arsenic Remediation, Determination of Arsenic Cleanup Goals for Proposed and Existing School Sites. March 21.

DTSC. 2020. Human and Ecological Risk Office, Human Health Risk Assessment (HHRA) Note Number 11, Southern California Ambient Arsenic Screening Level. December 28.

Attachments

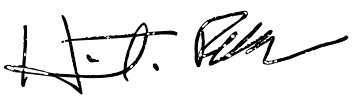
Figure 1 – Arsenic Probability Plot

Figure 2 – Log-Transformed Arsenic Probability Plot

Table 1 – Soil Arsenic Data Summary

This memorandum was prepared by:

Enviro-Tox Services, Inc.



Heriberto Robles, Ph.D., D.A.B.T.
Principal Toxicologist

ATTACHMENTS

FIGURES

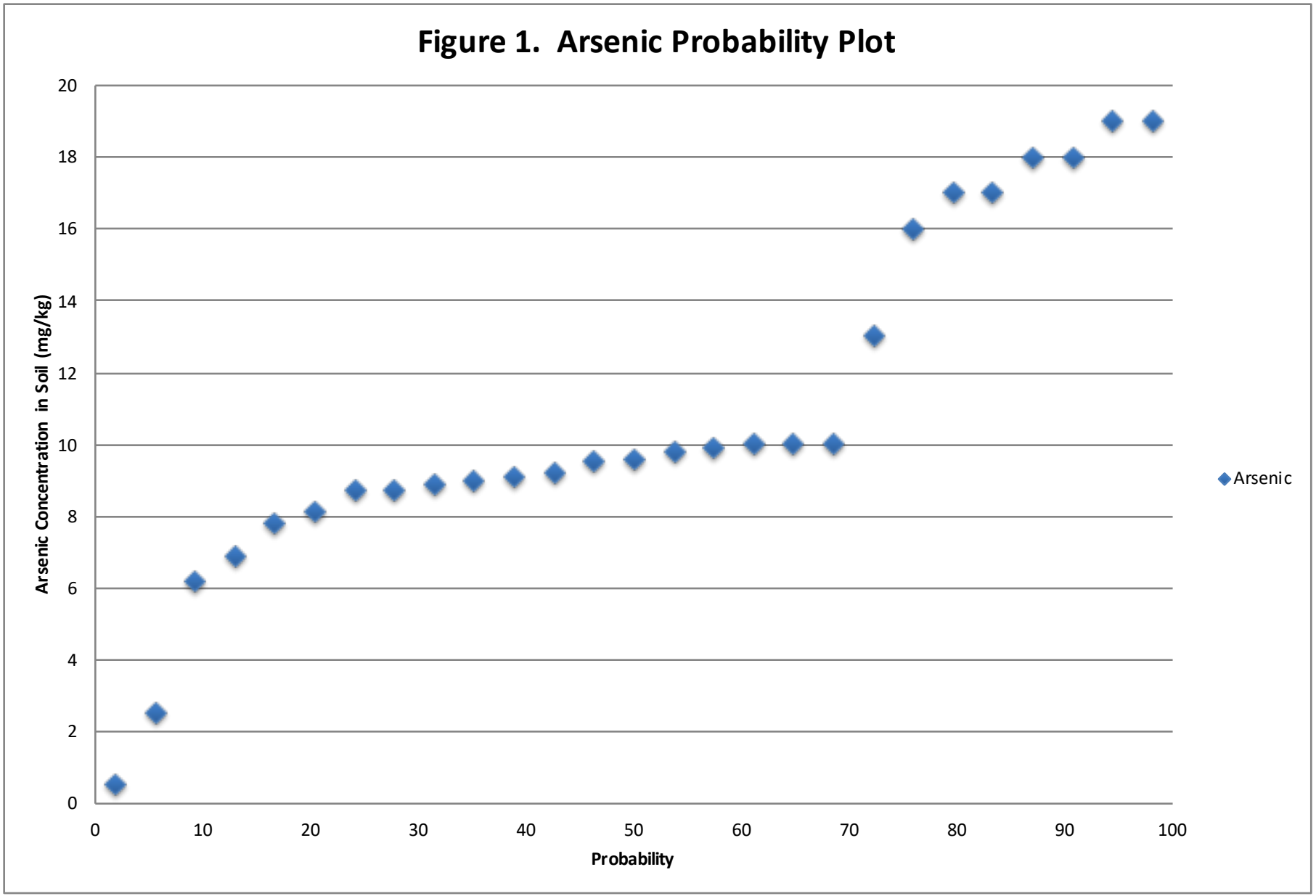


Figure 1. Arsenic Probability Plot
Arsenic Concentration in Soil (mg/kg)
0
2
4
6
8
10
12
14
16
18
20
0
10
20
30
40
50
60
70
80
90
100
Probability
Arsenic

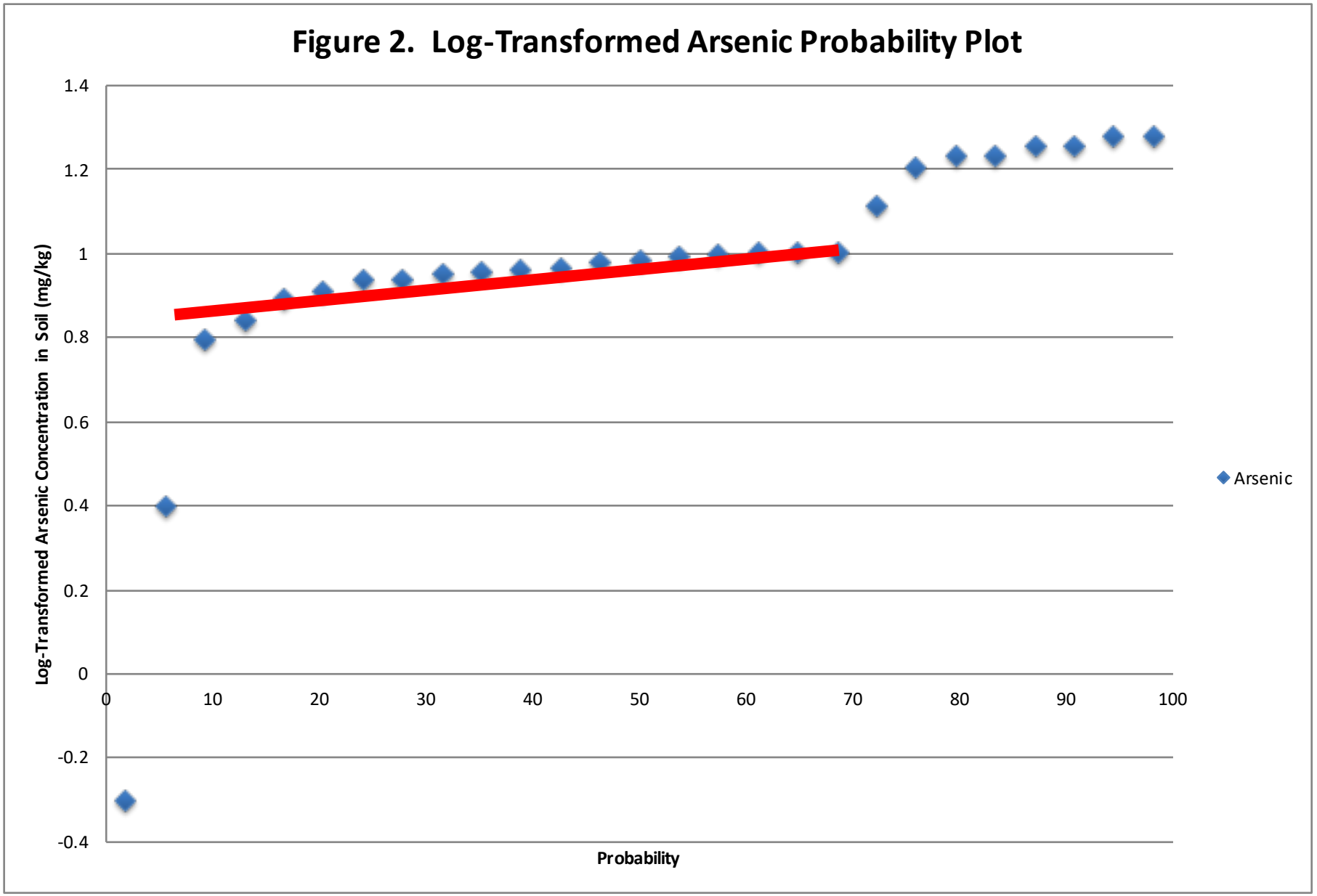


Figure 2. Log-Transformed Arsenic Probability Plot
Log-Transformed Arsenic Concentration in Soil (mg/kg)
1.4
1.2
1
0.8
0.6
0.4
0.2
0
-0.2
-0.4
0
10
20
30
40
50
60
70
80
90
100
Probability
Arsenic

TABLE

Table 1
Soil Arsenic Data Summary
McKinley Elementary School
2401 Santa Monica Boulevard
Santa Monica, California

Sample ID	Arsenic (mg/kg)
B1-0.5	--
B1-2	--
B2-0.5	9.9
B2-2	9.2
B3-0.5	6.2
B3-2	7.8
B4-0.5	6.9
B4-2	9.0
B5-0.5	9.8
B5-2	9.1
B6-0.5	8.7
B6-2	10
B7-0.5	9.6
B7-0.5 DUP	9.5
B7-2	19
B7-4	16
B8-0.5	8.7
B8-2	18
B8-4	17
B9-0.5	2.5
B9-2	10
B10-0.5	10
B10-2	18
B10-4	17
B11-0.5	8.9
B11-2	13
B11-4	19
B12-0.5	8.1
B12-2	ND (<0.99)

NOTES:

mg/kg = milligrams per kilogram

ND = Not detected at or above the method detection limit (MDL)

"- -" = Not Analyzed

DUP = Duplicate sample