

## Appendix G Preliminary Environmental Assessment

## Appendix

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## **PRELIMINARY ENVIRONMENTAL ASSESSMENT**

### **HOPE ELEMENTARY SCHOOL EXPANSION PROJECT PORTERVILLE, TULARE COUNTY, CALIFORNIA (SITE CODE: 104883)**



Prepared for:

HOPE ELEMENTARY SCHOOL DISTRICT

AUGUST 2024

August 26, 2024

Project Number: 2301-3641

Elizabeth "Liz" Tisdale, Project Manager  
California Department of Toxic Substances Control  
Northern California Schools Unit  
8800 Cal Center Drive  
Sacramento, California 95826-3200

Subject: Preliminary Environmental Assessment Report  
Hope Elementary School Expansion Project  
(Project Code: 104883)

Dear Ms. Tisdale:


Padre Associates, Inc. (Padre), on behalf of Hope Elementary School District and PlaceWorks, has prepared this Preliminary Environmental Assessment (PEA) Report for the Hope Elementary School Expansion Project, located at 613 West Teapot Dome Avenue in Porterville, Tulare County, California.

The PEA was completed in accordance with the California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) approved PEA workplan titled: *Preliminary Environmental Assessment Workplan, Hope Elementary School Expansion Project, Porterville, Tulare County, California (Padre, July 2024)*.

The PEA results report will be made available to the public for review and comment pursuant to Option A of the California Education Code (CEC) §17213.1.a (6) (A). If you have any questions or require additional information, please contact the undersigned at (916) 333-5920 ext. 240 / 250.

Sincerely,  
**PADRE ASSOCIATES, INC.**



  
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CC: Melanie Matta, Superintendent/Principal, Hope Elementary School District  
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## EXECUTIVE SUMMARY

Padre Associates, Inc. (Padre), on behalf of Hope Elementary School District (District), has prepared this Preliminary Environmental Assessment (PEA) Report for the Hope Elementary School Expansion Project located at 613 West Teapot Dome Avenue in Porterville, Tulare County, California (Project Site).

The District plans to construct a new gymnasium, which will contain three classrooms for up to 60 students. The existing parking area will be expanded, and a fire lane added. In addition, a new playfield will be constructed on the east portion of the Project Site. The anticipated opening date is August 2027.

The PEA was conducted in accordance with the document titled: *Preliminary Environmental Assessment Workplan, Hope Elementary School, Expansion Project, Porterville, Tulare County, California (Site Code: 104883, (Padre, July 2024))*. The California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) approved the PEA workplan in a letter dated July 11, 2024.

The PEA Report will be made available to the public for review and comment pursuant to Option A of the California Education Code (CEC) §17213.1.a (6)(A).

The purpose of the PEA was to establish whether a release or potential release of hazardous substances or naturally occurring material, which would pose a threat to human health via ingestion, dermal contact, and inhalation exposure pathways, exists at the Project Site. Chemicals of potential concern (COPC) identified at the Project Site included residual organochlorine pesticides (OCPs), arsenic, and lead from historic agricultural use; OCPs, petroleum hydrocarbons, metals, semi-volatile organic compounds (SVOCs), and naturally occurring asbestos (NOA) related to undocumented imported fill material; and petroleum hydrocarbons and metals related to a bus barn located west and adjacent to the Project Site that was constructed between 1977 and 1984.

Arsenic concentrations in soil ranged from 0.81 to 5.54 milligram per kilogram (mg/kg). Arsenic concentrations were compared to an arsenic data set from a school site located approximately 4 miles northwest of the Project Site. The property has a similar geologic setting (Pleistocene Nonmarine (Qc) sedimentary deposits) as the Project Site and consists of similar type soils (sandy loam). The arsenic concentrations at the background site ranged from 1.02 to 3.79 mg/kg. Arsenic concentrations identified in surface soil at the Project Site are comparable to background concentrations and further assessment and/or remedial action for arsenic in soil is not warranted.

Lead concentrations in soil ranged from 1.11 to 8.92 mg/kg in soil at the Project Site. Using DTSC's lead risk assessment spreadsheet model (*LeadSpread Version 9*), the model estimated a 90th percentile blood lead concentration of 0.1 µg/dl, which is below OEHHA's blood



toxicity level of 1 µg/dl. Therefore, further assessment and/or remedial action for lead in soil is not warranted.

Based on the findings of the PEA, the Project Site has not been adversely impacted by historic or current land-use activities. Therefore, Padre recommends the issuance of a “No Further Action” designation from the DTSC regarding the proposed Hope Elementary School Expansion Project.

## 1.0 INTRODUCTION

Padre Associates, Inc., on behalf of Hope Elementary School District (District), has prepared this Preliminary Environmental Assessment (PEA) report for the Hope Elementary School Expansion Project located at 613 West Teapot Dome Avenue in Porterville, Tulare County, California (Project Site). The Project Site is identified on **Plate 1-1: Site Location** and **Plate 1-2: Site Map**.

The District plans to construct a new gymnasium, which will contain three classrooms for up to 60 students. The existing parking area will be expanded, and a fire lane added. In addition, a new playfield will be constructed on the east portion of the Project Site. The anticipated opening date is August 2027.

The PEA was conducted in accordance with the document titled: *Preliminary Environmental Assessment Workplan, Hope Elementary School Expansion Project, Porterville, Tulare County, California Site Code: 104883, (Padre, July 2024)*. The California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) approved the PEA workplan in a letter dated July 11, 2024. A copy of DTSC's approval letter is presented in **Appendix A**.

### 1.1 PURPOSE

California Department of Education statutes (Assembly Bill 387, Senate Bill 162, and Assembly Bill 2644) require the CalEPA/DTSC to review environmental assessments for proposed new school sites and/or new construction school expansion projects. The role of the DTSC is to ensure that selected properties do not contain hazardous substances or naturally occurring materials that are a threat to public health and the environment.

### 1.2 OBJECTIVES

This PEA was conducted consistent with the DTSC guidance manual for evaluation of hazardous substance release sites titled *Preliminary Endangerment Assessment Guidance Manual*, State of California, Environmental Protection Agency, January 1994 (Revised October 2015). Pursuant to 79055(a) (1) (C) et. seq. (formerly Health and Safety Code §25355.5 (a) (1) (C)), the activities were performed to fulfill the requirements of the Environmental Oversight Agreement (EOA) issued to the school district by CalEPA/DTSC. The objectives of the PEA included:

- Evaluating historical information for indications of past use, storage, disposal, and/or release of hazardous substances at the Project Site;
- Establishing through a field sampling and laboratory analysis program, the nature, concentration, and general extent of hazardous substances that may be present in soil and/or groundwater at the Project Site; and
- Estimating the potential threat to public health and the environment presented by

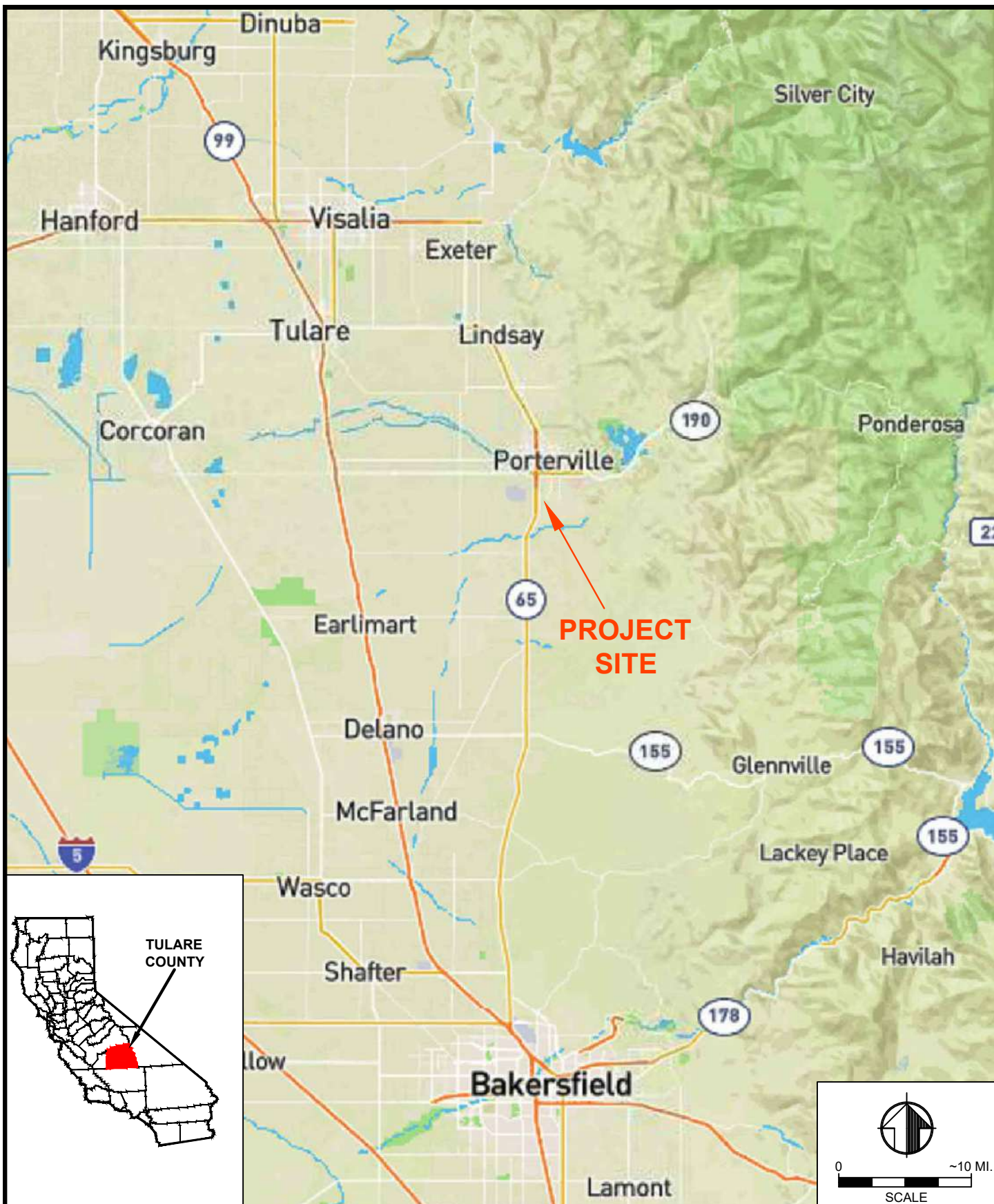
hazardous constituents identified at the property and providing an indicator of relative risk using a residential land-use scenario.

Based on information developed during the course of the PEA and the conservative human and ecological risk evaluation using the DTSC's *PEA Guidance Manual*, January 1994, (Revised October 2015), DTSC will then make an informed decision regarding potential risks posed by the Project Site.

Possible outcomes of the PEA decision include the issuance of a "No Further Action" finding if the risk level is found to be less than 1 in 1,000,000 ( $>10^{-6}$ ) which is DTSC's "point of departure", and the health hazard index is less than 1.0. Additional outcomes may include the need for further assessment through the Remedial Investigation/ Feasibility Study (RI/FS) process if the Project Site presents a risk and/or health hazard; the need to perform a Removal Action if localized impacts by hazardous substances release(s) are found; or the abandonment of the Project Site as a potential school site and the pursuit of alternative sites.

### **1.3 PUBLIC PARTICIPATION**

The PEA Report will be made available to the public for review and comment pursuant to Option A of the California Education Code (CEC) §17213.1.a (6)(A). When completed, public participation documentation will be submitted to DTSC under separate cover.



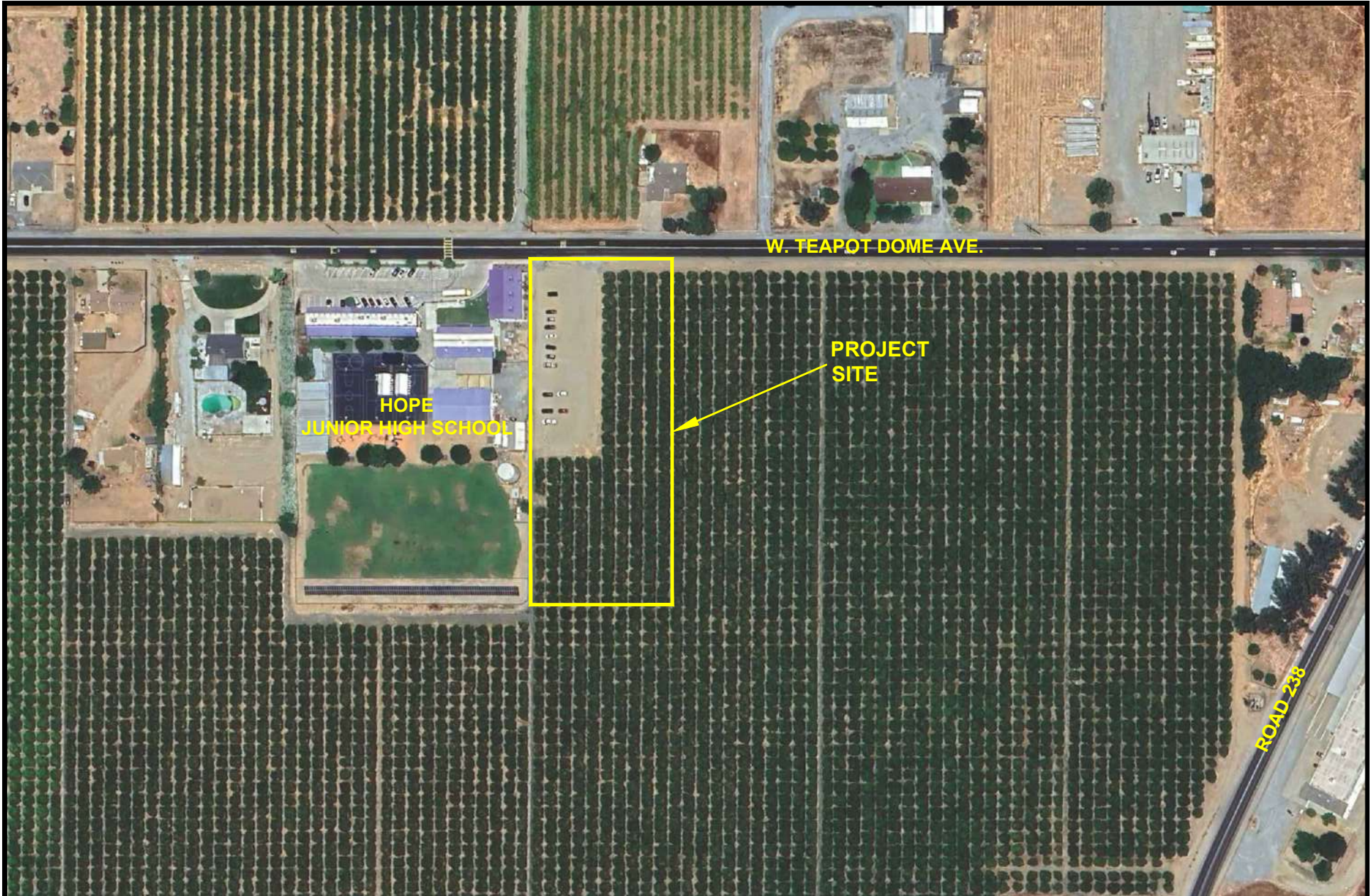
**padre**  
associates, inc.  
ENGINEERS, GEOLOGISTS &  
ENVIRONMENTAL SCIENTISTS

HOPE ELEM. SCHOOL EXPANSION PROJECT  
613 W. TEAPOT DOME AVENUE  
PORTERVILLE, CALIFORNIA

PROJECT NO. 2301-3641	DATE 8/20/24	DR. BY AC	APP. BY AJK
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PLATE 1-1  
SITE LOCATION





## 2.0 PROPERTY DESCRIPTION AND CONTACTS

### 2.1 SITE LOCATION AND ASSESSOR'S PARCEL NUMBER

The Project Site consists of approximately 2.2-acres of agricultural land that is a portion of a larger parcel of land (7.72-acres) identified by the Tulare County Assessor's Office as Assessor's Parcel Number (APN) 303-060-041. The Project Site is relatively flat and lies at an approximate elevation of 475-feet above mean sea level (amsl). A copy of the parcel map was presented in the PEA Workplan.

### 2.2 DESIGNATED CONTACT PERSON

Melanie Matta, Superintendent/Principal  
Hope Elementary School District  
613 Teapot Dome Avenue, Porterville, CA 93257  
(559) 784-1064  
[mmatta@hope-esd.org](mailto:mmatta@hope-esd.org)

### 2.3 PROPERTY USE

The Project Site consists of an unpaved parking lot at the northwest portion and an active citrus orchard on the remaining portion.

### 2.4 ENVIROSTOR DATABASE NUMBER

The EnviroStor database number for the Project Site is 60003755.

### 2.5 TOWNSHIP, RANGE, AND SECTION

The Project Site is located in portion Section 14, Township 22 South, Range 27 East, of the Porterville, California USGS 7½-Minute topographic series, Quadrangle Map, 2021. The latitude and longitude near the approximate center of the Project Site are identified as:

- Latitude (North): 36° 01' 17.28" (36.021467)
- Longitude (West): -119° 01' 50.62" (-119.030728)

### 2.6 SITE MAPS

A site location map is included as **Plate 1-1**, and a site map is included as **Plate 1-2**.

### 2.7 PHYSICAL SETTING

#### Topography

Based on a site visit and a review of the USGS 7.5-minute topographic quadrangle – Porterville, California 2018, the Project Site is relatively level and situated at an approximate



elevation of 475 feet above mean sea level (amsl). Based on current site conditions rainfall would infiltrate into the exposed surface area of the Project Site. Surface drainage from excessive precipitation would be expected to flow north towards a drainage swale along West Teapot Dome Avenue.

## **Geology**

The Project Site is located in the southeastern portion of the Great Valley Geomorphic Province. The Great Valley Geomorphic Province, a north-south trending valley, is approximately 400 miles long by 50 miles wide, and the southern portion of which is known as the San Joaquin Valley. The Project Site is located on the eastern flank of the San Joaquin Valley, west of the southern Sierra Nevada. The surface of the San Joaquin Valley is composed primarily of unconsolidated Pleistocene (1.6 million to 11,000 years ago) and Recent (11,000 years ago to the present) alluvial sediments. These lie unconformably on Mio-Pliocene, marine sediments, which extend to a crystalline basement at a depth of approximately 20,000 feet (Norris and Webb, 1990).

Stratigraphically, the subsurface of the Great Valley is complex, and is comprised of tens of thousands of feet of marine and non-marine sediments ranging in age from Jurassic to Recent. The sediments are important sources of groundwater and petroleum hydrocarbon resources (oil and gas). The relatively flat surface of the San Joaquin Valley is underlain by alluvial, lacustrine, and marine sedimentary deposits that accumulated as the structural trough formed as the adjacent mountain ranges were elevated through tectonic processes. The thickness of the sediments varies from a thin veneer along the valley margins to thousands of feet thick at the axis of the trough. The main axis of the trough is oriented north-south along the valley's main drainage axis.

According to the *Geologic Map of California – Fresno Sheet (1965)*, *California Geological Survey*, the Project Site is underlain by the quaternary age Pleistocene Nonmarine (Qc) sedimentary deposits.

## **Soils**

According to the United States Department of Agriculture, Soil Conservation Service's, Soil Survey of Tulare County, California, Central Part dated February 1982, the surface soil at the Project Site includes San Joaquin loam, 0 to 2 percent slopes and San Joaquin loam, 2 to 9 percent slopes in the north portion of the Project Site.

San Joaquin loam, 0 to 2 percent slopes consists of moderately deep, well drained soils which formed on terraces in alluvium derived from weathered granitic rock sources. Typically, the surface layer is brown and reddish-brown loam, moist, hard, slightly sticky and slightly plastic about 13 inches thick. The subsoil is reddish-brown sandy clay loam and clay 12 inches thick. Below the subsoil is a yellowish-red hardpan about 31 inches thick. Below the hardpan is brown, stratified sandy loam and loam to a depth of 78 inches. Permeability is very slow and the surface runoff is slow.

San Joaquin loam, 2 to 9 percent slopes consists of moderately deep, well drained soils which formed on terraces in alluvium derived from weathered granitic rock sources. Typically, the surface layer is brown and reddish-brown loam about 13 inches thick. The subsoil is reddish-brown sandy clay loam and clay 12 inches thick. Below the subsoil is a yellowish-red hardpan about 31 inches thick. Below the hardpan is brown, stratified sandy loam and loam to a depth of 78 inches. Permeability is very slow and the surface runoff is slow or medium.

## **Groundwater**

According to the California Department of Water Resources (<https://wdl.water.ca.gov/>), groundwater level data for a water well (22S27E10R001M) located approximately 0.25 west of the Project Site, the depth to groundwater is greater than 100 feet below grade surface. Based on regional topographic maps, groundwater is inferred to flow northwesterly.



## **3.0 BACKGROUND**

### **3.1 SITE HISTORY**

The Project Site has been owned by the District since 2005 and consists of approximately 2.2-acres of agricultural land that is a portion of a larger parcel of land (7.72-acres) identified by the Tulare County Assessor's Office as Assessor's Parcel Number (APN) 303-060-041. The Project Site was previously owned by Laux Land Company.

Based on a review of aerial photographs the Project Site has been in agriculture-use since at least the 1950s through to the present day. There are no building structures currently or historically identified at the Project Site. The northwest portion of the Project Site (approximate 0.6 acres) was converted into an unpaved parking area circa 2011/2012 to support modernization activities at the adjacent school site.

Padre completed a reconnaissance of the Project Site on December 6, 2023. The Project Site is generally flat and includes an unpaved parking area and an active citrus orchard. The unpaved parking area consists of approximately 0.6 acres and is located at the northwest portion of the Project Site. The remaining portion of the Project Site is part of a larger citrus orchard. No water wells or electrical transformers were observed at the Project Site. The active citrus orchard is currently leased to Prado Farm Labor Services.

Pesticide-use permits for the Project Site were provided by the Tulare County Agricultural Commissioner. Chemical application permits were issued to Sergio Prado for the years 2020 through 2023. None of the listed chemicals were identified as OCPs, and once applied these chemicals are known to readily experience biodegradation and photodegradation. The list of chemical use in the orchard area of the Project Site was presented in the PEA Workplan (Padre, July 2024).

A review of the Environmental Data Resources (EDR) Radius Map Report did not identify facilities in the database records search within a one-mile radius of the Project Site that present a recognized environmental concern (REC) to the Project Site. According to the EDR Environmental Lien Search, no environmental liens or AULs were identified for the Project Site. A review of DTSC's Envirostor Database and the State Water Resources Control Board's (SWRCB) GeoTracker website, did not identify any facilities in the databases that present a REC to the Project Site.

### **3.2 SURROUNDING PROPERTY LAND USE**

The Project Site is bordered to the north by West Teapot Dome Avenue, beyond which are residences and agricultural land; to the east and south by orchards; and to the west by Hope Elementary School.

A review of the EDR Radius Map Report, DTSC's Envirostor database, and the SWRCB's Geotracker database did not identify facilities in the database records search within a one-mile radius of the Project Site that present a REC to the Project Site.

### 3.3 CHEMICALS OF POTENTIAL CONCERN

The chemicals of potential concern (COPC) identified at the Project Site are based on current site conditions and historic property use. This information is summarized below:

- Organochlorine pesticides (OCPs), arsenic and lead in soil from agriculture-use with the presence of orchards (1930s – present day);
- No historic building structures have been identified to have occupied the Project Site;
- An unpaved parking area was constructed at the northwest portion of the Project Site circa 2011/2012 to support modernization activities for the adjacent school site. The source of this import material is unknown. Therefore, undocumented import fill material will be assessed for the presence of OCPs, petroleum hydrocarbons, metals, semi-volatile organic compounds (SVOCs), and naturally occurring asbestos (NOA);
- There is a building located approximately 6- to 7-feet west of the Project Site that was constructed between 1977 and 1984. The building is steel framed with corrugated metal roofing and siding (unpainted) and sits on a concrete slab foundation. The building is used for general maintenance of the District's school buses and as a school equipment storage area. Therefore, Project Site soil located adjacent to this structure will be assessed for the presence of petroleum hydrocarbons and metals;
- According to the *California Geological Survey (CGS) Map of California – Fresno Sheet (1966, fourth printing 1991)*, the occurrence of small ultrabasic outcrops has been identified approximately 2.5 to 4 miles northeast, east, and southeast of the Project Site. The Project Site is not situated within the drainage (Tule River, Deer Creek) of these outcrops. Additionally, several proposed school sites (Envirostor Nos. 60000281 in the Porterville area and located in the drainage of these outcrops have been assessed for the presence of NOA. According to reported analytical results soil samples did not contain concentrations of NOA at concentrations requiring further DTSC action. The sites reviewed included *Alta Vista Potential School Site* (Envirostor No. 60000281); the *Proposed Morton School Site* (Envirostor No. 60000280); and the *Future K-8 Site on Newcomb* (Envirostor No. 60002413) located in the drainage of the ultrabasic outcrops. Therefore, sampling for NOA in native soil is not proposed;
- According to the U.S. EPA map of California radon zones, Tulare County is identified as a Zone 2 (orange) county. Zone 2 counties have a predicted average indoor radon screening level greater than 2 pCi/L and less than 4 pCi/L. According to the California database of indoor radon levels for Tulare County (zip Code: 93257), 23 out of 150 site radon tests exceeded 4.0 pCi/L. Therefore, the potential for radon hazard at the Project Site is considered moderate and is dependent on site-design and building construction specifications; and

- The Project Site will be provided potable and irrigation water from a groundwater well located at the adjacent school site. The school's potable water system (Water System No. 5400994) is regulated by the California State Water Resources Control Board (SWRCB) Drinking Water Division and appears to be in compliance with drinking water standards. Therefore, the assessment of groundwater at the Project Site is not proposed. A copy of the 2022 Consumer Confidence Report along with water quality test results for the well are presented in PEA Workplan.

## 4.0 CONCEPTUAL SITE MODEL

The conceptual site model is the tool used to identify the primary sources of COPC identified at the Project Site, release mechanisms for the COPC, points of exposure at the Project Site, and the exposure pathways (ingestion, inhalation, and dermal contact) for the screening level evaluation of chronic health risks. The objective of this PEA is to evaluate the Project Site for an unrestricted land use (residential) scenario.

There are several ways a receptor may be exposed to COPC (i.e., pesticides, metals, etc.). Receptors can include humans, animals, vegetation, surface water, and/or groundwater. Typical pathways for exposure to COPC include:

- Physical transport via tracking chemicals of concern on people, clothing, and/or equipment; and
- Transport by airborne particulate matter.

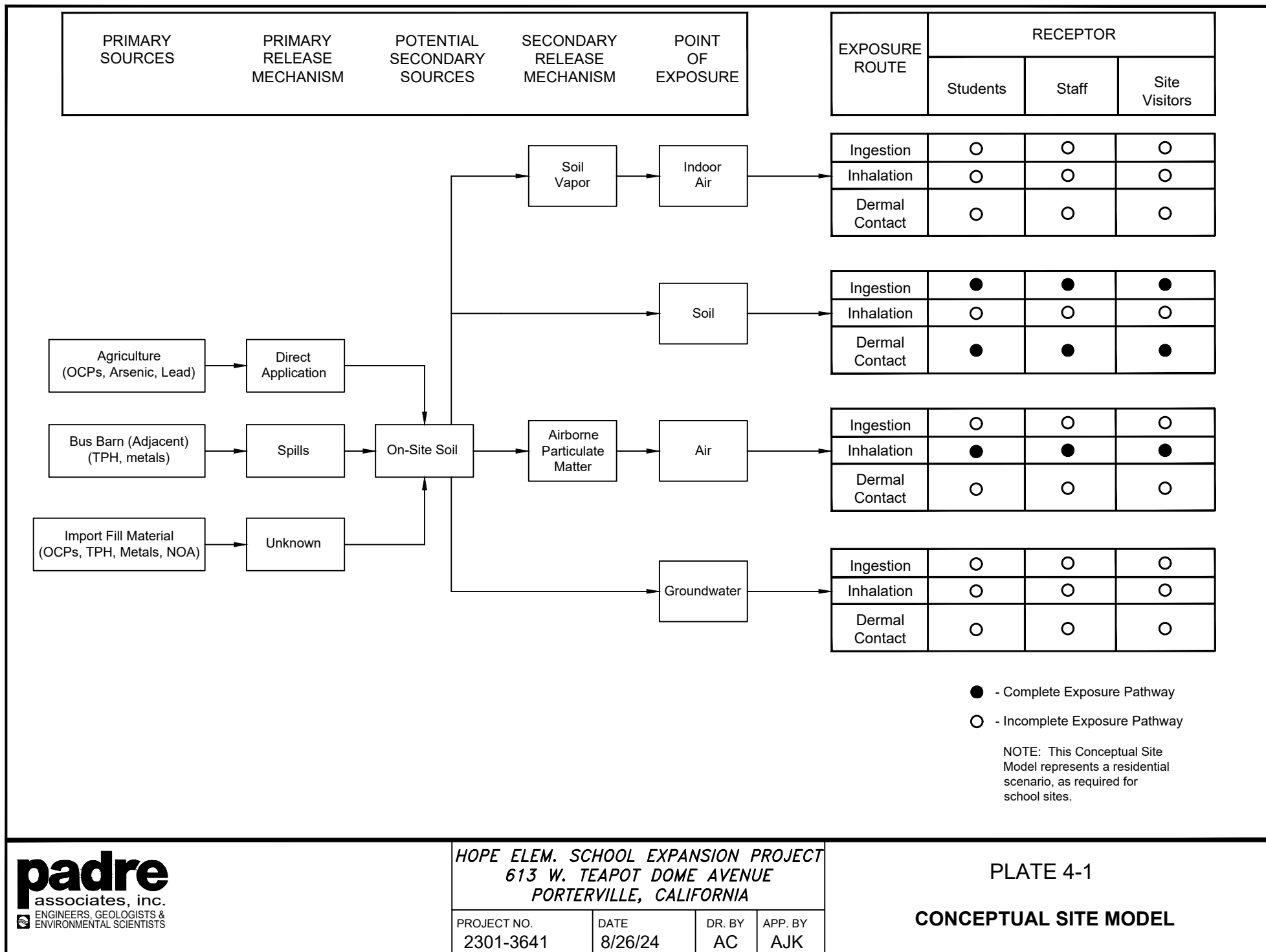
For humans and animals, exposure usually occurs by the following exposure routes:

- Ingestion or inhalation of contaminated soil particles; and
- Dermal contact with contaminated soil particles.

The conceptual site model for the Project Site was developed based on the following assumptions:

- Exposure of students, staff, and site visitors to COPC in soil via the ingestion and dermal contact routes is considered a complete exposure pathway;
- Exposure of students, staff, and site visitors to COPC in airborne particulate matter via the inhalation route is considered a complete exposure pathway;
- Exposure of students, staff, and site visitors to COPC in soil vapor via the inhalation route is considered an incomplete exposure pathway;
- Potable and irrigation water will be provided to the Project Site from an existing groundwater well located at the adjacent school site. The school's water system is regulated by the California State Water Resources Control Board (SWRCB) Drinking Water Division. Therefore, further assessment of groundwater beneath the Project Site is not proposed;
- Surface water was not observed at the Project Site. Therefore, exposure to surface water at the Project Site is an incomplete exposure pathway; and
- Ingestion of vegetation and animals is considered an incomplete exposure pathway because of the proposed use as a school site.

A conceptual site model is presented on **Plate 4-1**.



## 5.0 PEA ASSESSMENT

The PEA soil sampling activities were completed on July 24, 2024, in general accordance with the DTSC approved PEA workplan dated July 11, 2024. Prior to initiating field activities for the PEA, a field activities notification letter presented on District letterhead was delivered to nearby residents (line-of-sight) and posted at the Project Site. Site photographs are presented in **Appendix B** and a copy of the Health & Safety Plan is presented in **Appendix C**.

### 5.1 SAMPLE LOCATIONS

Sample locations were identified using an EOS Arrow 100 handheld electronic navigating device operating with the United States Government's Global Positioning Satellite system. The GPS coordinates for the soil sample locations are presented in **Table 5-1**. The field sampling schedule is presented in **Table 5-2** and the sample collection information is presented in **Table 5-3**. Specific soil sample locations and sample depths are described below:

#### 5.1.1 Soil Sampling

Based on site conditions and DTSC's sampling guidance documents the following sampling plan was implemented:

##### Citrus Orchard

Based on the approximate acreage of the citrus orchard (1.6 acres), four (4) discrete soil samples were collected within the orchard portion of the Project Site. The discrete soil samples were collected from surface to approximate depths of 0.5-feet and chemically analyzed for the presence of OCPs, arsenic, and lead. Soil sample locations are presented on **Plate 5-1**.

##### Import Fill Material

The northwest portion of the Project Site (approx. 0.6 acres) was improved as an unpaved parking area to support construction activities at the adjacent elementary school in the years 2011/2012. The source of the import material (decomposed granite?) is unknown. Therefore, four discrete soil samples were collected from approximate depths of surface to 0.5-feet bgs within the import fill material. The discrete soil samples were analyzed for the presence of OCPs, total petroleum hydrocarbons (TPH) identified as gasoline, diesel, motor oil, CAM 17 metals, SVOCs, and NOA. Soil sample location areas are presented on **Plate 5-1**.

##### Bus Barn (Adjacent)

There is a building located approximately 6- to 7-feet west of the Project Site that was constructed between 1977 and 1984. The building is steel framed with corrugated metal roofing and siding (unpainted) and sits on a concrete slab foundation. The building is used for general maintenance of the District's school buses and as a school equipment storage area. Therefore, adjacent to the

building, two soil samples were collected from approximate depths of 1.0- to 1.5-feet which is slightly below grade with the buildings concrete flooring and into native soil. The samples were chemically analyzed for the presence of TPH (identified as gasoline, diesel fuel, and motor oil) and CAM 17 metals. Soil sample locations are presented on **Plate 5-1**.

### **5.1.2 Quality Analysis/Quality Control Samples**

For quality assurance/quality control (QA/QC), approximately 10% of the discrete soil samples were analyzed as duplicate soil samples. Padre requested the analytical laboratory to split selected soil samples to be chemically analyzed as duplicates for OCPs, arsenic, and lead. One equipment blank sample and one field blank sample per soil sampling event (water samples) were also collected and analyzed for the presence of arsenic and lead.

## **5.2 SAMPLE COLLECTION**

### **5.2.1 Soil Sample Collection**

Surface and subsurface soil samples were collected using hand sampling tools including a hand pick and auger. Soil sampling equipment was decontaminated prior to use at each sample collection location and sampling event. Soil samples were collected in 2-inch x 6-inch stainless steel sleeves and sealed with plastic end caps. Surface soil was loosened with the hand pick and placed into the sample sleeves. Soil cuttings will be placed back in the hole after sample collection. Field sampling methods conformed to guidelines set forth in the site-specific Health and Safety (Appendix C).

The soil samples were sealed, labeled, and preserved on ice in the field. After completion of soil sampling activities, the soil samples were transferred to a State-certified analytical laboratory under chain-of-custody protocol for chemical analyses. Field sampling methods conformed to guidelines set forth in the Health and Safety Plan (Appendix C).

### **5.2.2 Decontamination Procedures**

Equipment that came into contact with potentially contaminated soil was decontaminated consistently so as to assure the quality of samples collected. Disposable equipment intended for one-time use was not decontaminated but packaged for appropriate disposal. Decontamination occurred prior to and after each use of a piece of equipment. All sampling devices used were decontaminated using the following procedures:

- Non-phosphate detergent and tap water wash, in a 5-gallon plastic bucket, using a brush;
- Deionized/distilled water rinse, in a 5-gallon plastic bucket; and
- Final deionized/distilled water rinse in a 5-gallon plastic bucket.

At the completion of sampling activities, the small amount of wash water was dispersed to the field area and allowed to infiltrate/evaporate. The wash water consisted of water, non-phosphate detergent, and a small amount of surface soil.

### **5.3 SAMPLE ANALYSES**

The laboratory analytical program schedule is summarized in **Table 5-2**. Analytical methods, types of containers, preservative, and holding times are summarized in **Table 5-3**. The laboratory analytical program will consist of chemical analyses of soil samples collected from the Project Site for the presence of:

- OCPs by U.S. Environmental Protection Agency (EPA) Method 8081B;
- Arsenic and Lead by U.S. EPA Method 6020;
- TPH (-g, -d, -mo) by U.S. EPA Method 8015M;
- CAM 17 Metals by U.S. EPA Method 6000/7000 series;
- SVOCs by U.S. EPA Method 8270; and
- NOA by PLM and TEM.

Equipment blanks (water sample) and field blanks (water sample) were also collected and analyzed for the presence of arsenic and lead by U.S. EPA Method 200.8.

#### **5.3.1 Chain-of-Custody Records**

Chain-of-custody (C-O-C) records are used to document sample collection and shipment to the laboratory for analysis. A C-O-C record accompanied all samples shipped for analysis. Form(s) were completed and sent with the samples for each laboratory and each shipment. If multiple coolers were sent to a single laboratory on a single day, C-O-C form(s) were completed and sent with the samples for each cooler. The C-O-C record identified the contents of each shipment and maintained the custodial integrity of the samples. Generally, a sample was considered to be in someone's custody if it was either in someone's physical possession, in someone's view, locked up, or kept in a secured area that was restricted to authorized personnel. Until receipt by the laboratory, the custody of the samples was the responsibility of the sample collector.

### **5.4 FIELD VARIANCES**

The import fill material located in the northwest portion of the Project Site was anticipated to be approximately 1-foot in depth. During field assessment activities, the import material was identified to be approximately 6- to 7-inches in depth. Therefore, samples collected of the import material ranged from surface to 0.5-feet.





**LEGEND**

AG-1 • AG SOIL SAMPLE LOCATION

IM-1 • IMPORT FILL SOIL SAMPLE LOCATION

BB-1 • BUS BARN SOIL SAMPLE LOCATION

<p><b>padre</b> associates, inc. ENGINEERS, GEOLOGISTS &amp; ENVIRONMENTAL SCIENTISTS</p>	<p>GOOGLE EARTH IMAGERY (11/23)</p>	<p><b>HOPE ELEM. SCHOOL EXPANSION PROJECT</b> 613 W. TEAPOT DOME AVENUE PORTERVILLE, CALIFORNIA</p>				<p>PLATE 5-1</p> <p><b>SOIL SAMPLE LOCATIONS</b></p>
		<p>PROJECT NO. 2301-3641</p>	<p>DATE 8/20/24</p>	<p>DR. BY AC</p>	<p>APP. BY AJK</p>	

**Table 5-1: Soil Sample GPS Locations**

Sample Identification	Coordinates	
	Latitude	Longitude
AG-1	36.022021°	-119.030517°
AG-2	36.021569°	-119.030523°
AG-3	36.021202°	-119.030833°
AG-4	36.020951°	-119.030604°
IM-1	36.022001°	-119.030974°
IM-2	36.021859°	-119.030839°
IM-3	36.021693°	-119.030998°
IM-4	36.021508°	-119.030821°
BB-1	36.021503°	-119.031062°
BB-2	36.021450°	-119.031070°

GPS – U.S. Global Positioning Satellite System

**Table 5-2. Field Sampling Schedule**

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
<b>Orchard</b>				
OCPs by U.S. EPA Method 8081A	Surface (0-0.5 feet)	4 (discrete)	AG-1, AG-2, AG-3, and AG-4 Duplicate: AG-3	Analyze
Arsenic by U.S. EPA Method 6020	Surface (0-0.5 feet)	4 (discrete)	AG-1, AG-2, AG-3, AG-4 Duplicate: AG-2	Analyze
Lead by U.S. EPA Method 6020	Surface (0-0.5 feet)	4 (discrete)	AG-1, AG-2, AG-3, AG-4 Duplicate: AG-1	Analyze
<b>Import Fill Material</b>				
OCPs by U.S. EPA Method 8081A	Surface (0-0.5 feet)	4 (discrete)	IM-1, IM-2, IM-3, and IM-4	Analyze
TPH by U.S. EPA Method 8015	Surface (0-0.5 feet)	4 (discrete)	IM-1, IM-2, IM-3, and IM-4	Analyze
CAM 17 Metals by U.S. EPA Method 6020/7010	Surface (0-0.5 feet)	4 (discrete)	IM-1, IM-2, IM-3, and IM-4	Analyze
SVOCs by U.S. EPA Method 8270	Surface (0-0.5 feet)	4 (discrete)	IM-1, IM-2, IM-3, and IM-4	Analyze
NOA by CARB Method 435 w/ PLM CARB Method 435 w/ TEM	Surface (0-0.5 feet)	4 (discrete)	IM-1, IM-2, IM-3, and IM-4	Analyze
		1 (discrete)	IM-2	Analyze

**Table 5-2. Field Sampling Schedule (continued)**

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
<b>Bus Barn</b>				
TPH by U.S. EPA Method 8015	Below grade of concrete flooring: (1.0-1.5 feet)	2 (discrete)	BB-1 and BB-2	Analyze
CAM 17 Metals by U.S. EPA Method 6020/7010	Below grade of concrete flooring: (1.0-1.5 feet)	2 (discrete)	BB-1 and BB-2	Analyze
<b>QA/QC Samples (water)</b>				
Arsenic and Lead by U.S. EPA Method 200.8	Not Applicable	1 per day	Equipment Blank (EB-1, etc.)	Analyze
		1 per day	Field Blanks (FB-1, etc.)	Analyze

Notes:

OCP – Organochlorine pesticides  
TPH – Total petroleum hydrocarbons  
SVOC – Semi-volatile organic compounds  
NOA – Naturally occurring asbestos  
CARB – California Air Resources Board  
PLM – Polarized Light Microscopy  
TEM – Transmission Electron Microscope

**Table 5-3. Sample Collection Information**

Sample Matrix and Test Method	Container	Preservative	Holding Time From Sample Collection to Extraction
<b>Soil</b>			
OCPs U.S. EPA Method 8081A	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	14 days
Arsenic U.S. EPA Method 6020	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	180 days
Lead U.S. EPA Method 6020	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	180 days
TPH (-g, -d, -mo) U.S. EPA Method 8015m	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	14 days
SVOCs U.S. EPA Method 8270	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	14 days
CAM 17 Metals U.S. EPA Method 6000/7000 series	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	Ice	180 days
NOA CARB 435 by PLM	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	None	60 days
NOA CARB 435 by TEM	2-inch x 6-inch stainless steel sample sleeves and plastic end caps	None	60 days
<b>Water</b>			
Arsenic and Lead U.S. EPA Method 200.8	250 mL poly bottle	HNO <sub>3</sub> / Ice	180 days

Notes:

OCPs – organochlorine pesticides

TPH – total petroleum hydrocarbons

SVOCs – Semi-volatile organic compounds

NOA – naturally occurring asbestos

HNO<sub>3</sub> – Nitric Acid

## 6.0 FINDINGS

The following sections describe the results of the PEA field activities performed by Padre at the Project Site. The following subsections describe soil sample analytical results, locations, and depth intervals for soil samples collected at the Project Site.

The laboratory analytical results are summarized in **Tables 6-1** through **6-4**. Arsenic in soil results are presented in **Plate 6-1** and lead in soil results are presented in **Plate 6-2**. Certified analytical laboratory reports and chain-of-custody documentation are provided in **Appendix D**.

### 6.1 SOIL RESULTS – CITRUS ORCHARD

The laboratory analytical results for soil samples collected from the citrus orchard are as follows:

- OCPs were not identified at or above their respective reporting limits.
- Arsenic concentrations ranged from 3.35 to 4.12 milligrams per kilogram (mg/kg).
- Lead concentrations ranged from 5.14 to 8.92 mg/kg.

### 6.2 SOIL RESULTS - IMPORT FILL MATERIAL

The laboratory analytical results for soil samples collected from the area of import fill material are as follows:

- OCPs were not identified at or above their respective reporting limits.
- TPH (-g, -d, -mo) was not identified at or above their respective reporting limits.
- SVOCs were not identified at or above their respective reporting limits.
- NOA was not detected at or above the 0.25% asbestos type sensitivity level by PLM.
- NOA was not detected at or above the 0.01% asbestos type sensitivity level by TEM.
- Arsenic concentrations ranged from 0.810 to 1.86 mg/kg.
- Lead concentrations ranged from 1.11 to 1.63 mg/kg.
- All other CAM 17 Metals were well below their respective Risk Screening Levels (RSLs).

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### **6.3 SOIL RESULTS – BUS BARN (ADJACENT)**

The laboratory analytical results for soil samples collected from the area adjacent to the bus barn are as follows:

- TPH (-g, -d, -mo) was not identified at or above their respective reporting limits.
- Arsenic concentrations ranged from 2.71 to 5.54 mg/kg;
- Lead concentrations ranged from 3.34 to 6.49 mg/kg;
- All other CAM 17 Metals were well below their respective RSLs.

### **6.4 QA/QC SAMPLES**

#### **6.4.1 Equipment Blank**

For each sampling event, distilled water was used as rinseate for decontaminating soil sampling equipment. The equipment blank sample was collected by pouring rinseate water over and through recently cleaned equipment and collected directly into the appropriate sample container.

The equipment blank sample was chemically analyzed for arsenic by U.S. EPA Method 200.8. The results of the laboratory analysis did not identify the presence of arsenic or lead at or above the analytical reporting limit of 1.0 micrograms per liter (µg/L).

#### **6.4.2 Field Blank**

For each sampling event, distilled water was used as rinseate for decontaminating sampling equipment. The field blank sample was collected by pouring rinseate water into the appropriate sample container.

The field blank sample was chemically analyzed for arsenic by U.S. EPA Method 200.8. The results of the laboratory analysis did not identify the presence of arsenic or lead at or above the analytical reporting limit of 1.0 µg/L for field blank samples.

### **6.5 LABORATORY QA/QC and DATA VALIDATION**

Eurofins Calscience, located in Tustin, California provided the required chemical analyses for soil and water samples collected at the Project Site. Eurofins Calscience is certified (No. 3082) by the State of California Environmental Laboratory Accreditation Program (ELAP) Branch to provide the required chemical analyses.

EMSL Analytical, Inc. (EMSL) located in San Leandro, California provided the required NOA analyses for soil samples collected at the Project Site. EMSL is certified (No. 1620) by the State of California ELAP Branch to provide the required analyses.

A cover letter with the signature of the laboratory director accompanies every laboratory report received for this project. According to the lab director, samples were analyzed utilizing EPA or other ELAP approved methodologies, and that the results are in compliance both technically and for completeness. The data quality objectives (DQO) met by the analytical laboratory for this project were level II.

### 6.5.1 Precision

Precision measures the reproducibility of repetitive measurements. It is strictly defined as the degree of mutual agreement among independent measurements as the result of repeated application of the sample process under similar conditions.

Analytical precision is a measurement of the variability associated with duplicate or replicate analyses of the same sample in the laboratory and is determined by analysis of laboratory quality control samples such as duplicate control samples (LCSD or DCS), matrix spike duplicates (MSD), or sample duplicates. If the recoveries of analytes in the specified control samples are comparable within established control limits, then precision is within limits.

Total precision is a measurement of the variability associated with the entire sampling and analytical process. It is determined by analysis of duplicate or replicate field samples, and measures variability introduced by other than laboratory and field operations. Field duplicate samples are analyzed to assess field and analytical precision.

Duplicate results are assessed using the relative percent difference (RPD) between duplicate measurements. If the RPD for laboratory quality control samples exceeds 30 percent, data shall be qualified as described in the applicable validation procedure. If the RPD between primary and duplicate field samples exceeds 100 percent for soil, data shall be qualified as described in the applicable validation procedure. The RPD shall be calculated as follows:

$$\% \text{ RPD} = 100\% \times \frac{\text{Abs}(X_2 - X_1)}{\text{Avg}(X_2 + X_1)}$$

Where  $X_2$  is the larger of the two observed values, and  $X_1$  is the smaller of the two observed values. The RPDs for selected original and duplicate soil samples are calculated in the following tables.

#### OCPs

Sample Identification	DDD	DDE	DDT	Chlordane	Dieldrin
AG-3	<5.0	<5.0	<5.0	<25	<5.0
AG-3 DUPE	<5.0	<5.0	<5.0	<25	<5.0
RPD (%)	0	0	0	0	0
Within Acceptable Range	Yes	Yes	Yes	Yes	Yes



### Arsenic

Sample Identification	Original Sample (mg/kg)	Duplicate Sample (mg/kg)	RPD (%)	Within Acceptable Range
AG-2 (Surf)	3.41	3.35	1.78	Yes

### Lead

Sample Identification	Original Sample (mg/kg)	Duplicate Sample (mg/kg)	RPD (%)	Within Acceptable Range
AG-1 (0-0.5')	5.67	6.19	8.77	Yes

The RPDs for the original and duplicate constituents are acceptable.

One sample was chemically analyzed as a duplicate for arsenic and lead. The RPDs for the original and duplicate samples are acceptable.

## **6.5.2 Accuracy**

Accuracy of laboratory analyses was by laboratory control samples, surrogate standards, matrix spikes, and initial and continuing calibrations of instruments. Laboratory accuracy is expressed as the percent recovery (%R). Accuracy limits are statistically generated by the laboratory or required by specified EPA methods. If the percent recovery is determined to be outside of acceptance criteria, the data was qualified. The percent recovery was calculated as follows:

$$\%R = 100 \times \frac{X_s - X}{T}$$

where  $X_s$  is the measured value of the spike sample,  $X$  is measured value of the unspiked sample, and  $T$  is the true value of the spiked solution.

In general recoveries were within acceptance limits; however, if recoveries were outside of acceptance criteria, the data was qualified by the analytical laboratory.

## **6.5.3 Representativeness**

Representativeness is the degree to which data accurately and precisely represent selected characteristics of the media sampled. Representativeness of data collection is addressed by the preparation of sampling and analyses programs. The PEA investigation had sufficient and the proper number of sample locations; incorporated the proper sampling methodologies; utilized the proper sample collection techniques and decontamination procedures; utilized the proper laboratory methods to prepare and analyze soil/water samples; and performed proper field and laboratory QA/QC protocols.

#### **6.5.4 Completeness**

Completeness is the amount of valid data obtained compared to the amount that was expected under ideal conditions. The number of valid results divided by the number of possible results, expressed as a percentage, determines the completeness of the data set. The objective for completeness is to recover at least 90 percent of the planned data to support field efforts. The formula for is completeness is presented below:

$$\% \text{ Completeness} = 100 \times \frac{\text{number of valid results}}{\text{number of expected results}}$$

The analytical data for the soil and water samples is 100% complete.

#### **6.5.5 Comparability**

Comparability is an expression of confidence with which one data set can be compared to another data set. The objective of comparability is to ensure that data developed during the PEA investigation are comparable to site knowledge and adequately address applicable criteria or standards established by DTSC or the U.S. EPA. The laboratory methods that were utilized during this PEA investigation are consistent with the current standards of practice as approved by the DTSC and the USEPA.

#### **6.5.6 Reporting Limits**

Laboratory detection limits for the proposed analytical methods were presented in the PEA Workplan dated July 2024 and approved by DTSC. The detection limits for OCPs, TPH, SVOCs, and metals were met by the analytical laboratory.

#### **6.5.7 Chain-of-Custody**

Completed chain-of-custody forms were provided with the samples upon sample delivery to Eurofins and EMSL. Copies of the chain-of-custody forms were included in the final analytical report. No discrepancies were noted by the analytical laboratory.

#### **6.5.8 Holding Time(s)**

All soil and/or water analyses requested from the analytical laboratories (Eurofins and EMSL) were performed within the method-specific holding times.







Table 6-1: Soil Results for OCPs  
(results in µg/kg)

Sample Identification	Date Collected	Sample Depth (feet)	Aldrin	(a,b,d)-BHC	Gamma-BHC	Chlordane-technical	DDD	DDE	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Hexachloro benzene	Hexachloro cyclopentadiene	Toxaphene
AG-1	7-24-24	0-0.5'	<4.9	<4.9	<4.9	<25	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<25
AG-2	7-24-24	0-0.5'	<4.9	<4.9	<4.9	<25	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<25
AG-3	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
AG-3 Dupe	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
AG-4	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
IM-1	7-24-24	0-0.5'	<4.9	<4.9	<4.9	<25	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<25
IM-2	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
IM-3	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
IM-4	7-24-24	0-0.5'	<5.0	<5.0	<5.0	<25	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<25
SL			39	86	570	1,700	2,300	2,000	1,900	34	450,000 <sup>(a)</sup>	450,000 <sup>(a)</sup>	380,000	19,000	19,000 <sup>(b)</sup>	19,000 <sup>(b)</sup>	130	70	320,000	190	1,800 <sup>(c)</sup>	450

Notes:  
µg/kg –micrograms per kilogram  
SL - HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised May 2022)  
(a) – Screening Level for Endosulfan  
(b) – Screening Level for Endrin  
(c) - USEPA Regional Screening Level (May 2024)

**Table 6-2: Soil Results for Arsenic and Lead  
(results in mg/kg)**

Sample Identification	Date Collected	Depth (feet)	Arsenic	Lead
Agriculture (Citrus Orchard)				
AG-1	7-24-24	0-0.5'	3.54	5.67
AG-1 Dupe	7-24-24	0-0.5'	--	6.19
AG-2	7-24-24	0-0.5'	3.41	5.14
AG-2 Dupe	7-24-24	0-0.5'	3.35	--
AG-3	7-24-24	0-0.5'	4.12	8.92
AG-4	7-24-24	0-0.5'	3.94	5.81
Import Fill Material (parking area)				
IM-1	7-24-24	0-0.5'	1.10	1.49
IM-2	7-24-24	0-0.5'	1.86	1.63
IM-3	7-24-24	0-0.5'	0.810	1.60
IM-4	7-24-24	0-0.5'	0.866	1.11
Bus Barn (adjacent to)				
BB-1	7-24-24	1-1.5'	5.54	6.49
BB-2	7-24-24	1-1.5'	2.71	3.34
Project Site Range			0.866 – 5.54	--
Background Site Range			1.02 – 3.79 <sup>A</sup>	--
Screening Level				80 <sup>B</sup>

Notes:

mg/kg – milligrams per kilogram

-- Not analyzed

**A** – 2006 school site PEA (Envirostor Number 60000280)

**B** – DTSC's residential screening level based on LeadSpread Ver. 9

**Table 6-3: Soil Results for TPH  
(results in mg/kg)**

Sample Identification	Date Collected	Sample Depth	TPH by EPA Method 8015M		
			TPH - gasoline	TPH - diesel	TPH – motor oil
IM-1	7-24-24	0-0.5'	<0.098	<5.0	<5.0
IM-2	7-24-24	0-0.5'	<0.097	<5.0	<5.0
IM-3	7-24-24	0-0.5'	<0.097	<5.0	<5.0
IM-4	7-24-24	0-0.5'	<0.097	<5.0	<5.0
BB-1	7-24-24	1-1.5'	<0.097	<5.0	<5.0
BB-2	7-24-24	1-1.5'	<0.10	<5.0	<5.0
	ESL		82	97 <sup>A</sup>	2,400 <sup>A</sup>

**Notes:**

TPH – Total Petroleum Hydrocarbons

mg/kg – milligrams per kilogram

ESL – SF Bay Regional Water Quality Control Board, Environmental Screening Levels (July, 2019)

A – HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised May 2022)

Table 6-4: CAM 17 Metals  
(results in mg/kg)

Sample Identification	Date Collected	Sample Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
Import Material																			
IM-1	7-24-24	0-0.5'	1.13	1.10	198	<0.481	0.0813	27.5	12.5	22.8	1.49	<0.0868	5.20	15.8	1.00	<0.0962	0.848	75.5	48.1
IM-2	7-24-24	0-0.5'	0.324	1.86	160	<0.532	<0.532	23.2	10.1	21.5	1.63	<0.0887	1.80	12.5	0.834	<1.06	0.374	66.3	40.5
IM-3	7-24-24	0-0.5'	<0.481	0.810	171	<0.481	<0.481	26.1	11.1	20.2	1.60	<0.0887	0.353	14.0	0.642	<0.962	0.342	67.1	42.1
IM-4	7-24-24	0-0.5'	<0.49	0.866	187	<0.49	<0.49	27.0	12.1	22.4	1.11	<0.0868	5.00	15.1	0.724	<0.98	0.419	73.7	47.9
Bus Barn																			
BB-1	7-24-24	1-1.5'	0.295	5.54	142	0.622	0.101	27.7	8.45	13.4	6.49	<0.0817	0.652	15.1	1.52	<0.943	0.274	51.4	43.2
BB-2	7-24-24	1-1.5'	<0.472	2.71	71.4	<0.472	<0.472	14.3	4.50	7.95	3.34	<0.0833	0.467	8.00	1.07	<0.943	<0.472	28.3	22.3
RSL			31	AB	15,000	16 <sup>A</sup>	7.1 <sup>A</sup>	120,000	23	3,100	80 <sup>B</sup>	1.0 <sup>A</sup>	390	820 <sup>A</sup>	390	390	1.6	390	23,000

Notes:  
mg/kg – milligrams per kilogram  
AB - Ambient background (1.02 to 3.79 mg/kg) - 2006 school site PEA (Envirostor Number 60000280)  
RSL – USEPA Regional Screening Level (May 2024)  
**A** - HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised May 2022)  
**B** - DTSC residential screening level based on LeadSpread Ver. 9



**Table 6-5: Soil Results for SVOCs  
(results in mg/kg)**

Sample Identification	Date Collected	Depth (feet)	Acenaphthene	Acenaphthylene	Anthracene	Benzo (a) anthracene	Benzo (a) pyrene	Benzo (b) fluoranthene	Benzo (g,h,i) perylene	Benzo (k) fluoranthene	Chrysene	Dibenzo (a,h) anthracene	Fluoranthene	Fluorene	Indeno (1,2,3-cd) pyrene	1-Methylnaphthalene	2-Methylnaphthalene	Naphthalene	Phenanthrene	Pyrene	All Other SVOCs
IM-1	7-24-24	0-0.5'	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	ND
IM-2	7-24-24	0-0.5'	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
IM-3	7-24-24	0-0.5'	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	ND
IM-4	7-24-24	0-0.5'	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	<0.49	ND
SL			3,300*	NE	17,000*	1.1	0.11	1.1	NE	11	110	0.028	2,400*	2,300*	1.1	9.9	190*	2.0	NE	1,800*	--

**Notes:**

PAH – Polyaromatic hydrocarbon

mg/kg – milligrams per kilogram

ND – Not detected

SL – HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised May 2022)

\* Non-carcinogenic

NE – Not established

**Table 6-6: Soil Results for NOA**

Sample Identification	Date Collected	Sample Depth	NOA PLM Analysis (% Type)	NOA TEM Analysis (Asbestos Weight %)
IM-1	7-24-24	0-0.5'	None Detected	NA
IM-2	7-24-24	0-0.5'	None Detected	<0.01%
IM-3	7-24-24	0-0.5'	None Detected	NA
IM-4	7-24-24	0-0.5'	None Detected	NA
Analytical Sensitivity			0.25%	0.01%
Further Action Determination			0.25%	0.01%

Notes:

NOA – Naturally Occurring Asbestos  
PLM – Polarized Light Microscopy  
TEM – Transmission Electron Microscopy  
NA – Not Analyzed

## 7.0 HUMAN HEALTH SCREENING-LEVEL EVALUATION

### 7.1 CHEMICALS OF POTENTIAL CONCERN

Based on the laboratory analytical results for soil samples collected at the Project Site, the following chemicals of potential concern (COPC) were evaluated for risk assessment purposes:

- Metals – Arsenic and Lead

Arsenic concentrations in soil ranged from 0.81 to 5.54 mg/kg. Arsenic concentrations were compared to an arsenic data set from a PEA report for a school site (Envirostor ID: 60000280) and located approximately 4 miles northwest of the Project Site. The property has a similar geologic setting (Pleistocene Nonmarine (Qc) sedimentary deposits) as the Project Site and consists of similar type soils (sandy loam). The arsenic concentrations at the background site ranged from 1.02 to 3.79 mg/kg. In general, arsenic concentrations identified in surface soil at the Project Site are comparable to background concentrations and further assessment and/or remedial action for arsenic in soil is not warranted. A copy of the background arsenic concentrations is presented in **Appendix E**.

Lead concentrations in soil ranged from 1.11 to 8.92 mg/kg in soil at the Project Site. A risk assessment was performed using the DTSC lead risk assessment spreadsheet model (*LeadSpread Version 9*). Based on the LeadSpread output, exposure to the lead concentrations detected at the Project Site will result in a 90th percentile blood lead concentration of 0.1 micrograms per deciliter (µg/dl) in children which is below the California Office of Environmental Health Hazard Assessment (OEHHA) blood toxicity level of 1 µg/l. Therefore, further assessment and/or remedial action for lead in soil is not warranted. A copy of the LeadSpread Risk Assessment Spreadsheet is presented in **Appendix F**.

## **8.0 ECOLOGICAL SCREENING**

A detailed ecological screening evaluation was not performed during this PEA. Based on a review of aerial photographs the Project Site has been in agriculture-use since at least the 1950s through to the present day. The northwest portion of the Project Site (approximate 0.6 acres) was converted into an unpaved parking area circa 2011/2012 to support modernization activities at the adjacent school site. Therefore, based on the available information, there does not appear to be a significant pathway of exposure to nonhuman, sensitive ecological species.

## 9.0 CONCLUSIONS AND RECOMMENDATIONS

The purpose of the PEA was to establish whether a release or potential release of hazardous substances, which potentially pose a threat to human health via ingestion, dermal contact, and inhalation exposure pathways, exists at the Project Site.

### Evaluation

Based on the laboratory analytical results for soil samples collected at the Project Site, the following COPC were evaluated for risk assessment purposes:

- Metals – Arsenic and Lead

### Risk Assessment

Arsenic concentrations in soil ranged from 0.81 to 5.54 mg/kg. Arsenic concentrations were compared to an arsenic data set from a school site located approximately 4 miles northwest of the Project Site. The property has a similar geologic setting (Pleistocene Nonmarine (Qc) sedimentary deposits) as the Project Site and consists of similar type soils (sandy loam). The arsenic concentrations at the background site ranged from 1.02 to 3.79 mg/kg. Arsenic concentrations identified in surface soil at the Project Site are comparable to background concentrations and further assessment and/or remedial action for arsenic in soil is not warranted.

Lead concentrations in soil ranged from 1.11 to 8.92 mg/kg in soil at the Project Site. Using DTSC's lead risk assessment spreadsheet model (*LeadSpread Version 9*), the model estimated a 90th percentile blood lead concentration of 0.1 µg/dl, which is below OEHHAs blood toxicity level of 1 µg/dl. Therefore, further assessment and/or remedial action for lead in soil is not warranted.

### Recommendations

Based on the findings of the PEA, the Project Site has not been adversely impacted by historic or current land-use activities. Therefore, Padre recommends the issuance of a "No Further Action" designation from the DTSC regarding the proposed Hope Elementary School Expansion Project.

## 10.0 REFERENCES

- CalEPA, Department of Toxic Substances Control (DTSC), Envirostor Database, (<https://www.envirostor.dtsc.ca.gov/public/>).
- \_\_\_\_\_, DTSC, *Human Health Risk Assessment (HHRA) Note 3: DTSC-modified Screening Levels (DTSC-SLs)*, Released June 2020 – Revised May 2022.
- \_\_\_\_\_, DTSC, *Human Health Risk Assessment (HHRA) Note 4: Screening Level Human Health Risk Assessments*, Revised March 2022.
- \_\_\_\_\_, DTSC – *Information Advisory, Clean Imported Fill Material*, October 2001.
- \_\_\_\_\_, DTSC – *Interim Guidance for Sampling Agricultural Soils (Third Revision)*, August 7, 2008.
- \_\_\_\_\_, DTSC, *Preliminary Environmental Assessment Guidance Manual*, January 1994, (Revised October 2015).
- California Division of Mines and Geology, *Geologic Map of California – Fresno Sheet, 1:250,000*, 1966, fourth printing 1991.
- California Geological Survey, *A General Location Guide For Ultramafic Rocks in California - Areas More Likely to Contain Naturally Occurring Asbestos*. Open File Report 2000-19, 2000.
- Environmental Data Resources, Inc., EDR Radius Map – Hope Junior High School Expansion, W. Teapot Dome Avenue, Porterville, CA 93257, November 20, 2023.
- Environmental Data Resources, Inc., EDR Aerial Photographs Database, Aerial Photographs.
- Norris, R. M., & R. W. Webb, 1976 (Second Edition 1990), *Geology of California*, John Wiley & Sons, New York, pp. 412-427.
- Padre Associates Inc., *Preliminary Environmental Assessment Work Plan, Hope Elementary School Expansion Project, Porterville, Tulare County, California (Site Code: 104883)*, July 2024.
- State Water Resources Control Board Geotracker website, (<http://geotracker.swrcb.ca.gov>).
- Tulare County Assessor (<https://tularecounty.ca.gov/assessor/>).
- United States (U.S.) Department of Agriculture, Soil Conservation Service, *Soil Survey of Tulare County, California – Central Part*, 1977.
- U.S. Environmental Protection Agency, *Regional Screening Levels (Region 9 RSLs)*, November 2023.
- U.S. Geological Survey, *Topographic Map; Porterville, California*, 2021.

## **APPENDIX A**

### **DTSC CORRESPONDENCE**



**Yana Garcia**  
Secretary for  
Environmental Protection



## Department of Toxic Substances Control

Meredith Williams, Ph.D., Director  
8800 Cal Center Drive  
Sacramento, California 95826-3200



**Gavin Newsom**  
Governor

### Sent Via Electronic Mail

July 11, 2024

Ms. Melanie Matta  
Superintendent/Principal  
Hope Elementary School District  
613 West Teapot Dome Avenue  
Porterville, California 93257  
MMatta@hope-esd.org

PRELIMINARY ENVIRONMENTAL ASSESSMENT WORKPLAN – APPROVAL  
LETTER, HOPE ELEMENTARY SCHOOL DISTRICT, HOPE ELEMENTARY SCHOOL  
EXPANSION PROJECT, PORTERVILLE, TULARE COUNTY, CALIFORNIA  
(PROJECT CODE: 104883)

Dear Ms. Matta:

The Department of Toxic Substances Control (DTSC) reviewed the final *Preliminary Environmental Assessment Workplan* (PEA Workplan – Padre Associates, Inc., July 10, 2024) received on July 10, 2024. The PEA Workplan includes project background information as well as proposed environmental investigation activities for a 2.2-acre expansion area for the Hope Junior High School located at 613 West Teapot Dome Avenue in Porterville, Tulare County, California (Site).

The PEA Workplan is approved.

If Site conditions differ from those presented in the approved PEA Workplan, additional work may be necessary. In accordance with Education Code section 17210.1(b), the Hope Elementary School District (District) shall provide written notice to businesses and residents in the immediate area, approved in form by DTSC, at least five days in advance of field investigation activities. The intent of this requirement is to provide advance notice



Ms. Melanie Matta  
July 10, 2024  
Page 2

of fieldwork such as drilling, sampling, and other environmental data collection activities to anyone who lives or works in the line of sight of the Site. Please notify DTSC a minimum of 48 hours in advance of fieldwork or schedule changes.

The PEA Workplan states that the District intends to make the Draft PEA Report available for public review in compliance with Option A of the Education Code section 17213.1(a)(6)(A). Pursuant to Education Code section 17213.1, subdivision (a)(6), at the same time the Draft PEA Report is submitted to DTSC for review, the District shall publish a DTSC-approved notice in a local newspaper of general circulation and post the notice in a prominent manner at the Site. The notice should state the District's intent of making the Draft PEA Report available for public review pursuant to Option A. A copy of the notice shall be submitted to DTSC with the Draft PEA Report.

If you have any questions regarding the project, please contact me at (916) 255-6666 or via email at [Elizabeth.Tisdale@dtsc.ca.gov](mailto:Elizabeth.Tisdale@dtsc.ca.gov).

Sincerely,

A handwritten signature in blue ink that reads "E. Tisdale".

Elizabeth Tisdale  
Project Manager  
Northern California Schools Unit  
Site Mitigation and Restoration Program  
Department of Toxic Substances Control

cc: (see next page)

Ms. Melanie Matta  
July 10, 2024  
Page 3

cc: (via email)

Alan Klein, REPA, CPESC, QSD/QSP  
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Tim Crick, PE, Chief  
Northern California Schools Unit  
Site Mitigation and Restoration Program  
Department of Toxic Substances Control  
[Tim.Crick@dtsc.ca.gov](mailto:Tim.Crick@dtsc.ca.gov)

## **APPENDIX B**

### **SITE PHOTOGRAHS**



Photo No.1 – PEA Field Notice posted at the entrance to the Project Site.



Photo No.2 – View of orchard sample area.



Photo No.3 – Looking north across parking area (import fill) and sample location (pink pin flag).



Photo No.4 – Sample decon station and cooler for samples.

Sampling Date: July 24, 2024

**APPENDIX C**  
**HEALTH & SAFETY PLAN**  
**(from Appendix F of the PEA Workplan)**

---

**APPENDIX F**  
**SITE HEALTH AND SAFETY PLAN**

Project Title: Preliminary Environmental Assessment (PEA) for the Hope Elementary School Expansion Project.

Project Address: 613 West Teapot Dome Avenue, Porterville, California.

Project Manager: Alan J. Klein Cell Phone: (916) 947-4831

Project Supervisor: Jerome K. Summerlin Cell Phone: (805) 218-0109

Office Phone: (916) 333-5920 (Sacramento Office) ext. 240.

**INTRODUCTION**

The purpose of this Site Health and Safety Plan (HSP) is to establish requirements for protecting the health and safety of site workers for the above-referenced project. The HSP contains safety information, instructions, and procedures.

**ORGANIZATION**

The following personnel are designated to carry out the stated job functions pertaining to the site activities. All site personnel have read this safety plan and are familiar with its provisions.

	<b>Name</b>	<b>Signature</b>
Site Safety Officer:	Alan Churchill	_____
Field Team Leader:	Matt Miller	_____
Field Personnel:		_____
Field Personnel:		_____
Field Personnel:		_____
Equipment Operator:		_____
Operator Helper:		_____

Work was accomplished in accordance with the Site Safety Plan, with the following exceptions: \_\_\_\_\_

Site Safety Office: \_\_\_\_\_

Date: \_\_\_\_\_

**(RETURN ORIGINAL COPY TO JOB FILE WITH SIGNATURES)**

---

## EMERGENCY RESPONSE (DIAL 9-1-1)

Nearest phone:	On Padre staff.
Emergency Facility:	Sierra View Medical Center
Address:	465 W. Putnam Avenue, Porterville, CA 93257
Phone:	(559) 784-1110
Ambulance response time:	Approximately 12-minutes.

Fire and Police will also be contacted by dialing 911. Ambulance service is to be used in emergencies if the injured person cannot safely be transported by a Padre Associates, Inc., vehicle. When in doubt as to the severity of the situation, call 911. Driving directions to Memorial Medical Center Emergency Department and an illustrated map are located at the end of this HSP.

## SITE DESCRIPTION

Location:	613 West Teapot Dome Avenue, Porterville, California.
Potential Hazards:	Soil containing organochlorine pesticides (OCPs), metals, total petroleum hydrocarbons (TPH), semi-volatile organic compounds (SVOCs), and naturally occurring asbestos (NOA).
Area of Interest:	Surface and shallow subsurface soil at the Project Site.
Surrounding Land Use:	Agricultural land (citrus orchards) and elementary school.
Topography:	Relatively flat.
Weather Conditions:	Expected temperatures 80-90 degrees.

## PROJECT OBJECTIVE

The objectives of the environmental assessment program are to:

- Utilize hand sampling equipment to collect surface and subsurface soil samples across the Project Site; and
- Selected soil samples will be submitted to a certified analytical laboratory to be chemically analyzed for the presence of OCPs, metals, TPH, SVOCs, and NOA.

## AGENCY REPRESENTATIVES

Name:	Elizabeth Tisdale, Project Manager
Agency:	California Department of Toxic Substances Control
Program:	Northern California Schools Unit
Phone Number:	(916) 255-6666

## SITE SETUP

A safe perimeter will be established at the work Project Site. The work area will be restricted to required personnel only. No unauthorized personnel will be allowed within the established safe perimeter or will be allowed to enter the Project Site during field work activities. Control boundaries will be marked with caution tape (if necessary) to maintain the established safe perimeter. The onsite command post will be established at the Padre Associates, Inc. vehicle onsite.

## HAZARD EVALUATION

**Chemicals Onsite.** The following substance(s) are known or suspected to be onsite. The primary hazards of each are identified along with their concentrations, if known.

Substance Involved	Primary Hazard	Concentration
OCPs in soil	Ingestion, inhalation, and dermal contact	Unknown
Arsenic in soil	Ingestion, inhalation, and dermal contact	Unknown
Lead in soil	Ingestion, inhalation, and dermal contact	Unknown
TPH in soil	Ingestion, inhalation, and dermal contact	Unknown
SVOCs in soil	Ingestion, inhalation, and dermal contact	Unknown
CAM 17 metals in soil	Ingestion, inhalation, and dermal contact	Unknown
NOA in soil	Ingestion, inhalation, and dermal contact	Unknown

**Notes:**

OCPs - Organochlorine Pesticides  
TPH - Total Petroleum Hydrocarbons  
NOA - Naturally Occurring Asbestos

**Physical Hazards Onsite.** The physical hazards and potential for employee exposure to the hazards (i.e., low, moderate, and high) anticipated during the field investigation are discussed below.

**Heavy Equipment.** The hazards involved with using heavy equipment (i.e., Geoprobe, pick-up trucks, backhoe) include hazards of pinch points; impact from moving parts; fatigue; and improper operation. Heavy equipment used during field activities will consist of pick-up trucks. The potential for incidents to occur from exposure to heavy equipment is considered low. Pre-cautions will be taken when working around heavy equipment. The following safe practices are to be followed during work around heavy equipment:



- While working onsite, wear reflective/visible safety vests, always maintain visual contact with the operator and remain alert.
- Never walk directly behind or to the side of heavy equipment without the operator's knowledge;
- All heavy equipment must be fitted with audible back-up alarms as mandated by OSHA;
- Blades, buckets, and other hydraulic systems will be fully lowered, and parking brakes engaged whenever equipment is not in use; and
- All non-essential personnel will be kept out of the work areas.

Heavy equipment other than pickup trucks is not anticipated for this project. Therefore, the potential for employee exposure to heavy equipment hazards during field activities is considered low.

Slips, Trips and Falls. Site activities can pose a variety of slip, trip and fall hazards. Examples that contribute to slips, trips and falls include uneven ground surfaces and slick or wet surfaces, and unstable earth slopes. The field activities will be conducted on a relatively level ground surface area. The immediate work area will remain clear of all sampling tools and equipment not in use.

Overhead and Underground Utilities. Typical site activities such as movement of equipment or intrusive activities such as excavations can present the risk of contact with overhead or underground utilities. Overhead utilities are not present at the Project Site. Soil collection activities will consist of using hand sampling equipment to collect surface and near surface soil samples. Therefore, the potential for employee exposure to utility hazards during field activities is considered low.

Heat Stress. High temperatures, direct sun, use of PPE, and labor-intensive activities may contribute to heat stress. Heat stress can involve a high risk of illness or death. Symptoms of heat stress or heat exhaustion include:

- Headaches, dizziness, lightheadedness, or fainting;
- Weakness and moist;
- Mood changes such as irritability or confusion;
- Upset stomach or vomiting.

Preventing heat stress while working outdoors includes:

- Know the signs/symptoms of heat stress, and monitor yourself and coworkers;
- Drink lots of water; about 1 cup every 15 minutes;
- Take regular breaks away from the sun;
- Wear lightweight, light colored, loose-fitting clothes;
- Avoid alcohol, caffeinated drinks, or heavy meals.

Treatment for heat related illness includes:

- Move the worker to a cool shaded area;
- Loosen or remove heavy clothing;
- Provide cool drinking water;
- Fan and mist the person with water;
- Call 911.

Field work is expected to be completed during June 2024. Therefore, the potential for employee exposure to heat stress hazards during field activities is considered moderate.

**Fire and Explosion.** Gas or sewer lines can contain hazardous levels of explosive or toxic gases, which may pose a fire risk. The risk of fire on site may also stem from the presence of vegetation, heat and fuel sources from construction equipment and site vehicles, or from the presence of combustible gases or vapors in contaminated soil and/or wells. Padre vehicles will be parked on unvegetated work areas. Therefore, the potential for exposure to fire and explosion hazards is considered low.

**Traffic Hazards.** Work activities along roadways, parking areas, and entrance and exit areas create exposure to traffic hazards. The Project Site consists of an unpaved parking area and citrus orchard. Field sampling activities will not be performed along or near roadways. Therefore, the potential for exposure to traffic hazards is considered low.

**Biological Hazards.** The Project Site consists of an unpaved parking area and citrus orchard. Therefore, there is a potential presence for a wide variety of insects, including bees, ticks and spiders that may be encountered. Stings from bees may cause serious allergic reactions in certain individuals. Ticks are parasites that feed on the blood of an animal/human host and can carry several severe diseases, causing fever and pain for several days and even brain damage. Poisonous snakes or spiders may also be encountered. Skin contact with certain plants (i.e., poison oak and poison ivy) may cause severe reactions. The best protection is skin coverage (long pants, long shirts, and gloves). Avoid wearing perfumes and scents.

## **GENERAL SAFETY RULES**

1. There will be no eating, drinking, or smoking within the work areas of the PEA.
2. Fire extinguishers will be in nearby Padre staff vehicles.
3. First aid kits will be in nearby Padre staff vehicles.

## **EQUIPMENT**

**Personal Protective Equipment.** Based on the evaluation of potential hazards, the level of protection deemed appropriate for this site is Level D. Field sampling activities will be conducted in such a manner as to limit the creation of dust during soil disturbance.

### **Level D equipment includes:**

hard hat  
steel toe and shank boots  
safety glasses or goggles  
gloves

**Level C equipment includes:**

- full or half face respirator
- dual cartridge with organic vapor/acid gas hepa filtration
- steel toe neoprene boots
- Tyvek suits
- latex inner gloves
- PVC outer gloves
- duct tape

**DECONTAMINATION PROCEDURES**

**Level D - Decontamination.** For Level D PPE work, the following personnel decontamination procedures must be observed by workers prior to rest breaks and upon leaving the exclusion zone:

1. Remove gross contamination from tools, monitoring equipment, boots, etc., prior to leaving the work site, using water, paper towels, Handi-Wipes®, etc.
2. Either completely decontaminate solid equipment at the work site using detergent and water (if possible) or wrap equipment in a plastic bag for transport until complete decontamination is possible.
3. Always follow established personnel decontamination procedures and remove contaminated gloves, paper towels, etc. by placing them in a plastic bag and arranging for proper disposal.
4. Wash hands and face (field wash) thoroughly with soap and water before lunch or coffee breaks, and as soon as possible after finishing work for the day.

**MONITORING**

**Safety Monitoring**

1. The designated Site Safety Officer is responsible for onsite safety recommendations during fieldwork activities.
2. A daily safety meeting will be conducted onsite by the Site Safety Officer prior to initiation of activities. The technical work plan will be discussed, and any other topic considered relevant by the Site Safety Officer.

**Environmental Monitoring**

1. The Site Safety Officer shall be notified of any onsite emergencies or potential hazards noticed by other site personnel. The Site Safety Officer is responsible for determining whether it is safe to proceed. If the Site Safety Officer does not or cannot make the determination, then the project manager shall be contacted prior to continuing with the investigation.
2. If any equipment onsite fails to operate properly, the Field Team Leader and Site Safety Officer shall be notified. It will be determined as to the effect of this failure on continuing

operations on the site. If the failure affects the safety of personnel or prevents completion of the work plan tasks, all personnel shall leave the job site until the situation is evaluated and appropriate actions taken.

### **Personal Monitoring.**

The following personal monitoring will be in effect onsite:

- Site personnel will be observed by the Site Safety Officer to determine whether they are operating in a safe manner.

### **TRAINING REQUIREMENTS**

All personnel will be up to date on the requirements set forth in 29 CFR 1910.120. It is the responsibility of the Corporate Health and Safety Coordinator to maintain the required annual 8-hour refresher training for all personnel. Padre's Corporate Health and Safety Coordinator is Mr. Andreas Wedderien (805) 644-2220 x19.

### **DISPOSAL OF WASTES DURING FIELD ACTIVITIES**

Generated waste solids (gloves, bottles, wrappers, etc.) will be placed in plastic trash bag and removed from the Project Site and the end of day of field activities. Soil cuttings will be placed back into the bore holes; therefore, no waste solids will be stored onsite. At the completion of sampling activities, the small amount of wash water will be dispersed to the ground surface. The wash water will consist of water, non-phosphate detergent, and a small amount of surface soil.

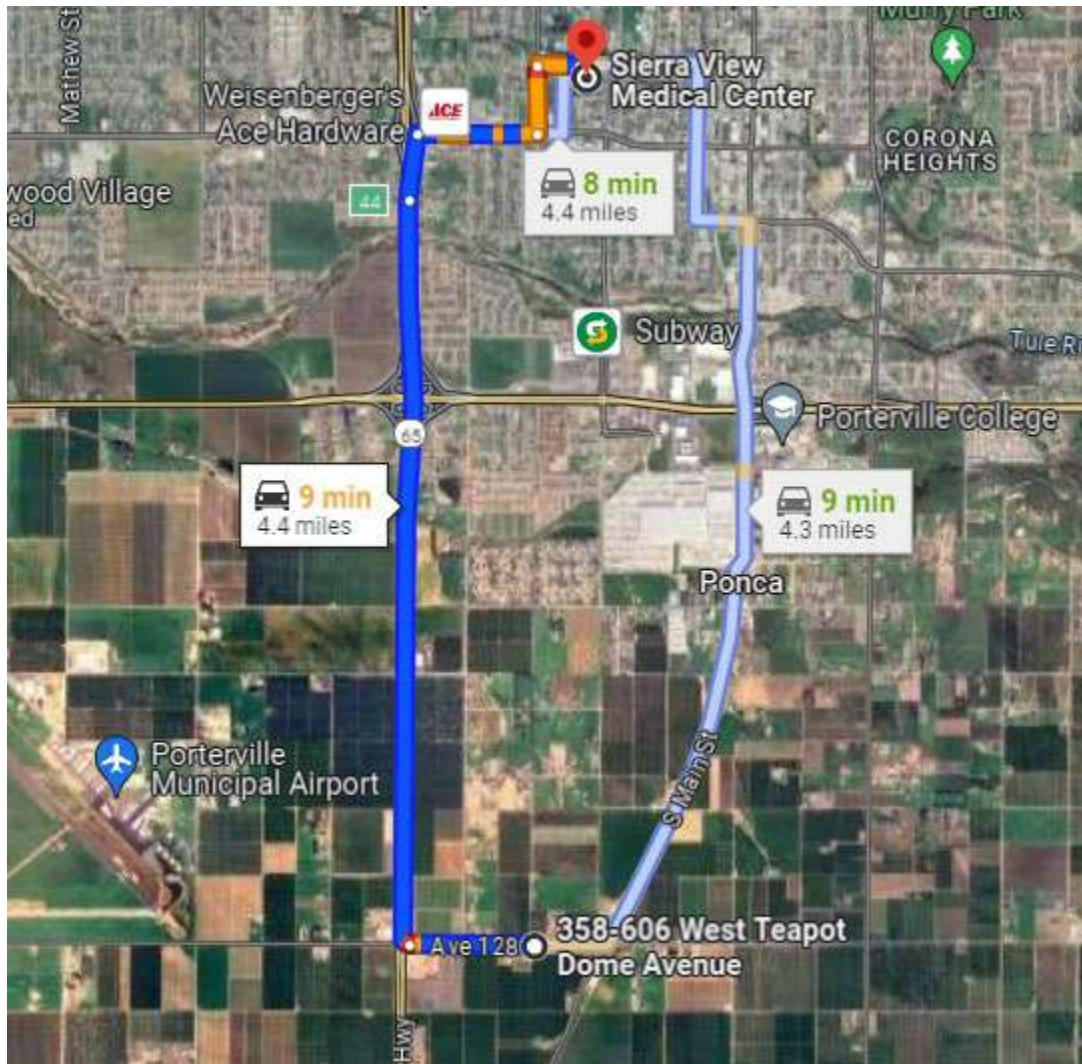
### **ROUTE TO HOSPITAL**

#### **Directions**

1. From the work area, head West on Teapot Dome Avenue (0.4 mi.);
2. Turn Right on CA-65 North (2.8 mi.);
3. Take exit for Olive Avenue (0.2 mi.);
4. Turn Left onto Putman Avenue (0.3 mi.);
5. Turn Right onto Putnam Avenue (0.7 mi.);

Arrive: Sierra View Medical Center, 465 W. Putnam Ave, Porterville, CA 93257

Drive Time: 4.5-miles in approximately 10-minutes.



**APPENDIX D**  
**LABORATORY ANALYTICAL REPORTS**  
**AND CHAIN-OF-CUSTODY DOCUMENTATION**



# ANALYTICAL REPORT

## PREPARED FOR

Attn: Alan Churchill  
Padre Associates, Inc.  
350 University Ave Suite 250  
Sacramento, California 95827

Generated 8/13/2024 11:51:02 AM

## JOB DESCRIPTION

Hope Elementary School, Porterville, CA

## JOB NUMBER

570-193109-1

## Job Notes

This report may not be reproduced except in full, and with written approval from the laboratory. The results relate only to the samples tested. For questions please contact the Project Manager at the e-mail address or telephone number listed on this page.

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins Calscience Project Manager.

## Authorization



Authorized for release by  
Rossina Tomova, Project Manager I  
[Rossina.Tomova@et.eurofinsus.com](mailto:Rossina.Tomova@et.eurofinsus.com)  
(657)210-6367

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# Definitions/Glossary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
*1	LCS/LCSD RPD exceeds control limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

### Metals

Qualifier	Qualifier Description
F1	MS and/or MSD recovery exceeds control limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

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

# Case Narrative

Client: Padre Associates, Inc.  
Project: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Job ID: 570-193109-1

Eurofins Calscience

## Job Narrative 570-193109-1

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

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

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

### Receipt

The samples were received on 7/26/2024 9:40 AM. Unless otherwise noted below, the samples arrived in good condition, and, where required, properly preserved and on ice. The temperature of the cooler at receipt time was 2.0°C.

### GC/MS Semi VOA

Method 8270C: The RPD of the laboratory control sample (LCS) and laboratory control sample duplicate (LCSD) for preparation batch 570-466094 and analytical batch 570-466727 recovered outside control limits for the following analytes: Benzo[g,h,i]perylene, Dibenz(a,h)anthracene and Indeno[1,2,3-cd]pyrene.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Gasoline Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Diesel Range Organics

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Pesticides

Method 8081A: The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 570-466360 and analytical batch 570-468193 were outside control limits for one or more analytes. See QC Sample Results for detail. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery is within acceptance limits.

Method 8081A: The continuing calibration verification (CCV) associated with batch 570-468193 recovered above the upper control limit for Chlordane and Toxaphene. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated sample is impacted: AG-3 (SURF) DUP (570-193109-15).

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

### Metals

Method 6020: The matrix spike / matrix spike duplicate (MS/MSD) recoveries and precision for preparation batch 570-467482 and 570-467599 and analytical batch 570-468126 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory sample control duplicate (LCS/LCSD) precision was within acceptance limits.

No additional analytical or quality issues were noted, other than those described above or in the Definitions/ Glossary page.

Eurofins Calscience

# Detection Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Client Sample ID: AG-1 (SURF)

## Lab Sample ID: 570-193109-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.54		0.513	0.0937	mg/Kg	20		6020	Total/NA
Lead	5.67		0.513	0.0671	mg/Kg	20		6020	Total/NA

## Client Sample ID: AG-2 (SURF)

## Lab Sample ID: 570-193109-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.41		0.505	0.0923	mg/Kg	20		6020	Total/NA
Lead	5.14		0.505	0.0661	mg/Kg	20		6020	Total/NA

## Client Sample ID: AG-3 (SURF)

## Lab Sample ID: 570-193109-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	4.12		0.495	0.0905	mg/Kg	20		6020	Total/NA
Lead	8.92		0.495	0.0648	mg/Kg	20		6020	Total/NA

## Client Sample ID: AG-4 (SURF)

## Lab Sample ID: 570-193109-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.94		0.508	0.0928	mg/Kg	20		6020	Total/NA
Lead	5.81		0.508	0.0664	mg/Kg	20		6020	Total/NA

## Client Sample ID: IM-1 (0-6")

## Lab Sample ID: 570-193109-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	1.13		0.481	0.194	mg/Kg	5		6020	Total/NA
Arsenic	1.10	F2 F1	0.481	0.0758	mg/Kg	5		6020	Total/NA
Barium	198	F1	0.481	0.266	mg/Kg	5		6020	Total/NA
Cadmium	0.0813	J F2 F1	0.481	0.0692	mg/Kg	5		6020	Total/NA
Chromium	27.5	F2 F1	0.481	0.366	mg/Kg	5		6020	Total/NA
Cobalt	12.5	F2 F1	0.481	0.0492	mg/Kg	5		6020	Total/NA
Copper	22.8	F2 F1	0.481	0.0891	mg/Kg	5		6020	Total/NA
Lead	1.49	F2 F1	0.481	0.266	mg/Kg	5		6020	Total/NA
Molybdenum	5.20		0.481	0.237	mg/Kg	5		6020	Total/NA
Nickel	15.8	F2 F1	0.481	0.326	mg/Kg	5		6020	Total/NA
Selenium	1.00	F2 F1	0.481	0.366	mg/Kg	5		6020	Total/NA
Thallium	0.848	F2 F1	0.481	0.153	mg/Kg	5		6020	Total/NA
Vanadium	75.5	F2 F1	0.481	0.180	mg/Kg	5		6020	Total/NA
Zinc	48.1	F2 F1	4.81	2.90	mg/Kg	5		6020	Total/NA

## Client Sample ID: IM-2 (0-6")

## Lab Sample ID: 570-193109-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.324	J	0.532	0.215	mg/Kg	5		6020	Total/NA
Arsenic	1.86		0.532	0.0838	mg/Kg	5		6020	Total/NA
Barium	160		0.532	0.294	mg/Kg	5		6020	Total/NA
Chromium	23.2		0.532	0.405	mg/Kg	5		6020	Total/NA
Cobalt	10.1		0.532	0.0545	mg/Kg	5		6020	Total/NA
Copper	21.5		0.532	0.0986	mg/Kg	5		6020	Total/NA
Lead	1.63		0.532	0.294	mg/Kg	5		6020	Total/NA
Molybdenum	1.80		0.532	0.262	mg/Kg	5		6020	Total/NA
Nickel	12.5		0.532	0.361	mg/Kg	5		6020	Total/NA
Selenium	0.834		0.532	0.405	mg/Kg	5		6020	Total/NA
Thallium	0.374	J	0.532	0.169	mg/Kg	5		6020	Total/NA

This Detection Summary does not include radiochemical test results.

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# Detection Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Client Sample ID: IM-2 (0-6") (Continued)

## Lab Sample ID: 570-193109-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Vanadium	66.3		0.532	0.199	mg/Kg	5		6020	Total/NA
Zinc	40.5		5.32	3.21	mg/Kg	5		6020	Total/NA

## Client Sample ID: IM-3 (0-6")

## Lab Sample ID: 570-193109-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.810		0.481	0.0758	mg/Kg	5		6020	Total/NA
Barium	171		0.481	0.266	mg/Kg	5		6020	Total/NA
Chromium	26.1		0.481	0.366	mg/Kg	5		6020	Total/NA
Cobalt	11.1		0.481	0.0492	mg/Kg	5		6020	Total/NA
Copper	20.2		0.481	0.0891	mg/Kg	5		6020	Total/NA
Lead	1.60		0.481	0.266	mg/Kg	5		6020	Total/NA
Molybdenum	0.353	J	0.481	0.237	mg/Kg	5		6020	Total/NA
Nickel	14.0		0.481	0.326	mg/Kg	5		6020	Total/NA
Selenium	0.642		0.481	0.366	mg/Kg	5		6020	Total/NA
Thallium	0.342	J	0.481	0.153	mg/Kg	5		6020	Total/NA
Vanadium	67.1		0.481	0.180	mg/Kg	5		6020	Total/NA
Zinc	42.1		4.81	2.90	mg/Kg	5		6020	Total/NA

## Client Sample ID: IM-4 (0-6")

## Lab Sample ID: 570-193109-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	0.866		0.490	0.0773	mg/Kg	5		6020	Total/NA
Barium	187		0.490	0.271	mg/Kg	5		6020	Total/NA
Chromium	27.0		0.490	0.374	mg/Kg	5		6020	Total/NA
Cobalt	12.1		0.490	0.0502	mg/Kg	5		6020	Total/NA
Copper	22.4		0.490	0.0909	mg/Kg	5		6020	Total/NA
Lead	1.11		0.490	0.271	mg/Kg	5		6020	Total/NA
Molybdenum	5.00		0.490	0.241	mg/Kg	5		6020	Total/NA
Nickel	15.1		0.490	0.333	mg/Kg	5		6020	Total/NA
Selenium	0.724		0.490	0.373	mg/Kg	5		6020	Total/NA
Thallium	0.419	J	0.490	0.156	mg/Kg	5		6020	Total/NA
Vanadium	73.7		0.490	0.184	mg/Kg	5		6020	Total/NA
Zinc	47.9		4.90	2.96	mg/Kg	5		6020	Total/NA

## Client Sample ID: BB-1 (1-1.5")

## Lab Sample ID: 570-193109-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Antimony	0.295	J	0.472	0.190	mg/Kg	5		6020	Total/NA
Arsenic	5.54		0.472	0.0743	mg/Kg	5		6020	Total/NA
Barium	142		0.472	0.261	mg/Kg	5		6020	Total/NA
Beryllium	0.622		0.472	0.376	mg/Kg	5		6020	Total/NA
Cadmium	0.101	J	0.472	0.0679	mg/Kg	5		6020	Total/NA
Chromium	27.7		0.472	0.359	mg/Kg	5		6020	Total/NA
Cobalt	8.45		0.472	0.0483	mg/Kg	5		6020	Total/NA
Copper	13.4		0.472	0.0875	mg/Kg	5		6020	Total/NA
Lead	6.49		0.472	0.261	mg/Kg	5		6020	Total/NA
Molybdenum	0.652		0.472	0.232	mg/Kg	5		6020	Total/NA
Nickel	15.1		0.472	0.320	mg/Kg	5		6020	Total/NA
Selenium	1.52		0.472	0.359	mg/Kg	5		6020	Total/NA
Thallium	0.274	J	0.472	0.150	mg/Kg	5		6020	Total/NA
Vanadium	51.4		0.472	0.177	mg/Kg	5		6020	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

# Detection Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Client Sample ID: BB-1 (1-1.5") (Continued)

Lab Sample ID: 570-193109-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Zinc	43.2		4.72	2.85	mg/Kg	5		6020	Total/NA

## Client Sample ID: BB-2 (1-1.5")

Lab Sample ID: 570-193109-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	2.71		0.472	0.0743	mg/Kg	5		6020	Total/NA
Barium	71.4		0.472	0.261	mg/Kg	5		6020	Total/NA
Chromium	14.3		0.472	0.359	mg/Kg	5		6020	Total/NA
Cobalt	4.50		0.472	0.0483	mg/Kg	5		6020	Total/NA
Copper	7.95		0.472	0.0875	mg/Kg	5		6020	Total/NA
Lead	3.34		0.472	0.261	mg/Kg	5		6020	Total/NA
Molybdenum	0.467	J	0.472	0.232	mg/Kg	5		6020	Total/NA
Nickel	8.00		0.472	0.320	mg/Kg	5		6020	Total/NA
Selenium	1.07		0.472	0.359	mg/Kg	5		6020	Total/NA
Vanadium	28.3		0.472	0.177	mg/Kg	5		6020	Total/NA
Zinc	22.3		4.72	2.85	mg/Kg	5		6020	Total/NA

## Client Sample ID: FB#1

Lab Sample ID: 570-193109-11

No Detections.

## Client Sample ID: EB#1

Lab Sample ID: 570-193109-12

No Detections.

## Client Sample ID: AG-1 (SURF) DUP

Lab Sample ID: 570-193109-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Lead	6.19		0.508	0.0664	mg/Kg	20		6020	Total/NA

## Client Sample ID: AG-2 (SURF) DUP

Lab Sample ID: 570-193109-14

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	3.35		0.490	0.0896	mg/Kg	20		6020	Total/NA

## Client Sample ID: AG-3 (SURF) DUP

Lab Sample ID: 570-193109-15

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins Calscience

Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-1 (SURF)

Date Collected: 07/24/24 08:50

Date Received: 07/26/24 09:40

Lab Sample ID: 570-193109-1  
Matrix: Solid

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	0.70	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
4,4'-DDE	ND		4.9	0.67	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
4,4'-DDT	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Aldrin	ND		4.9	1.6	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
alpha-BHC	ND		4.9	0.58	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
alpha-Chlordane	ND		4.9	0.56	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
beta-BHC	ND		4.9	0.88	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Chlordane	ND		25	4.0	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
delta-BHC	ND		4.9	0.92	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Dieldrin	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endosulfan I	ND		4.9	1.1	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endosulfan II	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endosulfan sulfate	ND		4.9	0.62	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endrin	ND		4.9	0.66	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endrin aldehyde	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Endrin ketone	ND		4.9	0.89	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
gamma-Chlordane	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
gamma-BHC	ND		4.9	0.51	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Heptachlor	ND		4.9	0.59	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Heptachlor epoxide	ND		4.9	0.53	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Methoxychlor	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:11	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/11/24 15:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	74		38 - 148	07/31/24 12:04	08/11/24 15:11	1
DCB Decachlorobiphenyl (Surr)	96		37 - 151	07/31/24 12:04	08/11/24 15:11	1

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.54		0.513	0.0937	mg/Kg		08/04/24 12:00	08/05/24 13:21	20
Lead	5.67		0.513	0.0671	mg/Kg		08/04/24 12:00	08/05/24 13:21	20

Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-2 (SURF)

Lab Sample ID: 570-193109-2  
Matrix: Solid

Date Collected: 07/24/24 08:54

Date Received: 07/26/24 09:40

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	0.71	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
4,4'-DDE	ND		4.9	0.68	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
4,4'-DDT	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Aldrin	ND		4.9	1.6	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
alpha-BHC	ND		4.9	0.58	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
alpha-Chlordane	ND		4.9	0.56	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
beta-BHC	ND		4.9	0.89	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Chlordane	ND		25	4.0	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
delta-BHC	ND		4.9	0.92	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Dieldrin	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endosulfan I	ND		4.9	1.1	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endosulfan II	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endosulfan sulfate	ND		4.9	0.62	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endrin	ND		4.9	0.66	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endrin aldehyde	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Endrin ketone	ND		4.9	0.89	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
gamma-Chlordane	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
gamma-BHC	ND		4.9	0.51	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Heptachlor	ND		4.9	0.59	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Heptachlor epoxide	ND		4.9	0.53	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Methoxychlor	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:25	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/11/24 15:25	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	78		38 - 148	07/31/24 12:04	08/11/24 15:25	1
DCB Decachlorobiphenyl (Surr)	98		37 - 151	07/31/24 12:04	08/11/24 15:25	1

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.41		0.505	0.0923	mg/Kg		08/04/24 12:00	08/05/24 13:42	20
Lead	5.14		0.505	0.0661	mg/Kg		08/04/24 12:00	08/05/24 13:42	20



Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-3 (SURF)

Lab Sample ID: 570-193109-3  
Matrix: Solid

Date Collected: 07/24/24 08:57

Date Received: 07/26/24 09:40

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
alpha-BHC	ND		5.0	0.59	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
beta-BHC	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Dieldrin	ND		5.0	0.55	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endosulfan II	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Endrin ketone	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:39	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/11/24 15:39	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	65		38 - 148	07/31/24 12:04	08/11/24 15:39	1
DCB Decachlorobiphenyl (Surr)	78		37 - 151	07/31/24 12:04	08/11/24 15:39	1

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	4.12		0.495	0.0905	mg/Kg		08/05/24 10:42	08/06/24 17:23	20
Lead	8.92		0.495	0.0648	mg/Kg		08/05/24 10:42	08/06/24 17:23	20

Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-4 (SURF)

Lab Sample ID: 570-193109-4  
Matrix: Solid

Date Collected: 07/24/24 09:02  
Date Received: 07/26/24 09:40

Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
alpha-BHC	ND		5.0	0.58	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
beta-BHC	ND		5.0	0.89	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Dieldrin	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endosulfan II	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Endrin ketone	ND		5.0	0.89	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
gamma-Chlordane	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Heptachlor epoxide	ND		5.0	0.53	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 15:53	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/11/24 15:53	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	85		38 - 148	07/31/24 12:04	08/11/24 15:53	1
DCB Decachlorobiphenyl (Surr)	103		37 - 151	07/31/24 12:04	08/11/24 15:53	1

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.94		0.508	0.0928	mg/Kg		08/04/24 12:00	08/05/24 13:47	20
Lead	5.81		0.508	0.0664	mg/Kg		08/04/24 12:00	08/05/24 13:47	20

# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-1 (0-6")

Lab Sample ID: 570-193109-5

Date Collected: 07/24/24 09:40

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
1,2-Dichlorobenzene	ND		0.49	0.083	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
1,3-Dichlorobenzene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
1,4-Dichlorobenzene	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
1-Methylnaphthalene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4,5-Trichlorophenol	ND		0.49	0.19	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4,6-Trichlorophenol	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4-Dichlorophenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4-Dimethylphenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4-Dinitrophenol	ND		2.0	0.90	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,4-Dinitrotoluene	ND		0.49	0.080	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,6-Dichlorophenol	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2,6-Dinitrotoluene	ND		0.49	0.085	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Chloronaphthalene	ND		0.49	0.085	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Chlorophenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Methylnaphthalene	ND		0.49	0.099	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Methylphenol	ND		0.49	0.095	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Nitroaniline	ND		0.49	0.090	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
2-Nitrophenol	ND		0.49	0.14	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
3,3'-Dichlorobenzidine	ND		2.5	0.53	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
3/4-Methylphenol	ND		0.99	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
3-Nitroaniline	ND		0.49	0.082	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.93	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Bromophenyl phenyl ether	ND		0.49	0.072	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Chloro-3-methylphenol	ND		0.49	0.091	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Chloroaniline	ND		0.49	0.081	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Chlorophenyl phenyl ether	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Nitroaniline	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
4-Nitrophenol	ND		0.49	0.31	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Acenaphthene	ND		0.49	0.078	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Acenaphthylene	ND		0.49	0.095	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Aniline	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Anthracene	ND		0.49	0.076	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Azobenzene	ND		0.49	0.077	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzidine	ND		4.9	0.57	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzo[a]anthracene	ND		0.49	0.082	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzo[a]pyrene	ND		0.49	0.098	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzo[b]fluoranthene	ND		0.49	0.083	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzo[g,h,i]perylene	ND	*1	0.49	0.088	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzo[k]fluoranthene	ND		0.49	0.093	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzoic acid	ND		2.5	0.66	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Benzyl alcohol	ND		0.49	0.16	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Bis(2-chloroethoxy)methane	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Bis(2-chloroethyl)ether	ND		2.5	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
bis (2-Chloroisopropyl) ether	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Bis(2-ethylhexyl) phthalate	ND		0.49	0.21	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Butyl benzyl phthalate	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Chrysene	ND		0.49	0.082	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Dibenz(a,h)anthracene	ND	*1	0.49	0.079	mg/Kg		07/31/24 18:33	08/04/24 04:48	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-1 (0-6")

Lab Sample ID: 570-193109-5

Date Collected: 07/24/24 09:40

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		0.49	0.093	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Diethyl phthalate	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Dimethyl phthalate	ND		0.49	0.097	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Di-n-butyl phthalate	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Di-n-octyl phthalate	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Fluoranthene	ND		0.49	0.093	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Fluorene	ND		0.49	0.093	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Hexachloro-1,3-butadiene	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Hexachlorobenzene	ND		0.49	0.079	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Hexachlorocyclopentadiene	ND		1.5	0.085	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Hexachloroethane	ND		0.49	0.091	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Isophorone	ND		0.49	0.078	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Naphthalene	ND		0.49	0.14	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Nitrobenzene	ND		2.0	0.13	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
N-Nitrosodimethylamine	ND		0.49	0.088	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
N-Nitrosodi-n-propylamine	ND		0.49	0.084	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.49	0.084	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Pentachlorophenol	ND		2.5	1.8	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Phenanthrene	ND		0.49	0.071	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Phenol	ND		0.49	0.096	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Pyrene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 04:48	1
Pyridine	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 04:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	85		10 - 134	07/31/24 18:33	08/04/24 04:48	1
2-Fluorobiphenyl (Surr)	68		14 - 142	07/31/24 18:33	08/04/24 04:48	1
2-Fluorophenol (Surr)	76		10 - 123	07/31/24 18:33	08/04/24 04:48	1
Nitrobenzene-d5 (Surr)	70		10 - 129	07/31/24 18:33	08/04/24 04:48	1
p-Terphenyl-d14 (Surr)	84		31 - 139	07/31/24 18:33	08/04/24 04:48	1
Phenol-d6 (Surr)	75		10 - 120	07/31/24 18:33	08/04/24 04:48	1

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.098	0.043	mg/Kg		08/05/24 10:39	08/05/24 12:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		42 - 126	08/05/24 10:39	08/05/24 12:37	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.6	mg/Kg		08/03/24 16:24	08/07/24 00:56	1
C23-C40	ND		5.0	4.6	mg/Kg		08/03/24 16:24	08/07/24 00:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	103		60 - 138	08/03/24 16:24	08/07/24 00:56	1

## Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		4.9	0.71	ug/Kg		07/31/24 12:04	08/12/24 12:42	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-1 (0-6")

Lab Sample ID: 570-193109-5

Date Collected: 07/24/24 09:40

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		4.9	0.68	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
4,4'-DDT	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Aldrin	ND		4.9	1.6	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
alpha-BHC	ND		4.9	0.58	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
alpha-Chlordane	ND		4.9	0.56	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
beta-BHC	ND		4.9	0.89	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Chlordane	ND		25	4.0	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
delta-BHC	ND		4.9	0.92	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Dieldrin	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endosulfan I	ND		4.9	1.1	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endosulfan II	ND		4.9	0.54	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endosulfan sulfate	ND		4.9	0.62	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endrin	ND		4.9	0.67	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endrin aldehyde	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Endrin ketone	ND		4.9	0.89	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
gamma-Chlordane	ND		4.9	3.3	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
gamma-BHC	ND		4.9	0.51	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Heptachlor	ND		4.9	0.59	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Heptachlor epoxide	ND		4.9	0.53	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Methoxychlor	ND		4.9	1.2	ug/Kg		07/31/24 12:04	08/12/24 12:42	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/12/24 12:42	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	92		38 - 148	07/31/24 12:04	08/12/24 12:42	1
DCB Decachlorobiphenyl (Surr)	107		37 - 151	07/31/24 12:04	08/12/24 12:42	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	1.13		0.481	0.194	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Arsenic	1.10	F2 F1	0.481	0.0758	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Barium	198	F1	0.481	0.266	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Beryllium	ND	F2 F1	0.481	0.383	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Cadmium	0.0813	J F2 F1	0.481	0.0692	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Chromium	27.5	F2 F1	0.481	0.366	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Cobalt	12.5	F2 F1	0.481	0.0492	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Copper	22.8	F2 F1	0.481	0.0891	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Lead	1.49	F2 F1	0.481	0.266	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Molybdenum	5.20		0.481	0.237	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Nickel	15.8	F2 F1	0.481	0.326	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Selenium	1.00	F2 F1	0.481	0.366	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Silver	ND	F2 F1	0.962	0.493	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Thallium	0.848	F2 F1	0.481	0.153	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Vanadium	75.5	F2 F1	0.481	0.180	mg/Kg		08/05/24 13:55	08/06/24 17:35	5
Zinc	48.1	F2 F1	4.81	2.90	mg/Kg		08/05/24 13:55	08/06/24 17:35	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0868	0.0229	mg/Kg		07/30/24 10:16	07/31/24 10:40	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-2 (0-6")

Lab Sample ID: 570-193109-6

Date Collected: 07/24/24 09:32

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
1,2-Dichlorobenzene	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
1,3-Dichlorobenzene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
1,4-Dichlorobenzene	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
1-Methylnaphthalene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4,5-Trichlorophenol	ND		0.50	0.19	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4,6-Trichlorophenol	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4-Dichlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4-Dimethylphenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4-Dinitrophenol	ND		2.0	0.90	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,4-Dinitrotoluene	ND		0.50	0.081	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,6-Dichlorophenol	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2,6-Dinitrotoluene	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Chloronaphthalene	ND		0.50	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Chlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Methylnaphthalene	ND		0.50	0.099	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Methylphenol	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Nitroaniline	ND		0.50	0.091	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
2-Nitrophenol	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
3,3'-Dichlorobenzidine	ND		2.5	0.53	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
3/4-Methylphenol	ND		0.99	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
3-Nitroaniline	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.94	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Bromophenyl phenyl ether	ND		0.50	0.073	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Chloro-3-methylphenol	ND		0.50	0.092	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Chloroaniline	ND		0.50	0.082	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Chlorophenyl phenyl ether	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Nitroaniline	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
4-Nitrophenol	ND		0.50	0.31	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Acenaphthene	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Aniline	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Anthracene	ND		0.50	0.077	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Azobenzene	ND		0.50	0.078	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzidine	ND		5.0	0.57	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzo[a]anthracene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzo[a]pyrene	ND		0.50	0.099	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzo[b]fluoranthene	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzo[g,h,i]perylene	ND	*1	0.50	0.089	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzo[k]fluoranthene	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzoic acid	ND		2.5	0.67	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Benzyl alcohol	ND		0.50	0.17	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Bis(2-chloroethoxy)methane	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Bis(2-chloroethyl)ether	ND		2.5	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.22	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Butyl benzyl phthalate	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Chrysene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Dibenz(a,h)anthracene	ND	*1	0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:11	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-2 (0-6")

Lab Sample ID: 570-193109-6

Date Collected: 07/24/24 09:32

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Diethyl phthalate	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Dimethyl phthalate	ND		0.50	0.098	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Di-n-butyl phthalate	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Di-n-octyl phthalate	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Fluoranthene	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Fluorene	ND		0.50	0.093	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Hexachloro-1,3-butadiene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Hexachlorobenzene	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Hexachlorocyclopentadiene	ND		1.5	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Hexachloroethane	ND		0.50	0.091	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Isophorone	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Naphthalene	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Nitrobenzene	ND		2.0	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
N-Nitrosodimethylamine	ND		0.50	0.088	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
N-Nitrosodi-n-propylamine	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Pentachlorophenol	ND		2.5	1.8	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Phenanthrene	ND		0.50	0.072	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Phenol	ND		0.50	0.097	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Pyrene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:11	1
Pyridine	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	86		10 - 134	07/31/24 18:33	08/04/24 05:11	1
2-Fluorobiphenyl (Surr)	74		14 - 142	07/31/24 18:33	08/04/24 05:11	1
2-Fluorophenol (Surr)	75		10 - 123	07/31/24 18:33	08/04/24 05:11	1
Nitrobenzene-d5 (Surr)	77		10 - 129	07/31/24 18:33	08/04/24 05:11	1
p-Terphenyl-d14 (Surr)	83		31 - 139	07/31/24 18:33	08/04/24 05:11	1
Phenol-d6 (Surr)	80		10 - 120	07/31/24 18:33	08/04/24 05:11	1

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.097	0.043	mg/Kg		08/05/24 10:39	08/05/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		42 - 126	08/05/24 10:39	08/05/24 12:56	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.5	mg/Kg		08/03/24 16:24	08/07/24 01:21	1
C23-C40	ND		5.0	4.5	mg/Kg		08/03/24 16:24	08/07/24 01:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	97		60 - 138	08/03/24 16:24	08/07/24 01:21	1

## Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		07/31/24 12:04	08/12/24 12:56	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-2 (0-6")

Lab Sample ID: 570-193109-6

Date Collected: 07/24/24 09:32

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		5.0	0.68	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
alpha-BHC	ND		5.0	0.58	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
beta-BHC	ND		5.0	0.89	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Dieldrin	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endosulfan II	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Endrin ketone	ND		5.0	0.89	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
gamma-Chlordane	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Heptachlor epoxide	ND		5.0	0.53	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 12:56	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/12/24 12:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	91		38 - 148	07/31/24 12:04	08/12/24 12:56	1
DCB Decachlorobiphenyl (Surr)	116		37 - 151	07/31/24 12:04	08/12/24 12:56	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.324	J	0.532	0.215	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Arsenic	1.86		0.532	0.0838	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Barium	160		0.532	0.294	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Beryllium	ND		0.532	0.424	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Cadmium	ND		0.532	0.0766	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Chromium	23.2		0.532	0.405	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Cobalt	10.1		0.532	0.0545	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Copper	21.5		0.532	0.0986	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Lead	1.63		0.532	0.294	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Molybdenum	1.80		0.532	0.262	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Nickel	12.5		0.532	0.361	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Selenium	0.834		0.532	0.405	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Silver	ND		1.06	0.545	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Thallium	0.374	J	0.532	0.169	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Vanadium	66.3		0.532	0.199	mg/Kg		08/05/24 13:55	08/06/24 17:46	5
Zinc	40.5		5.32	3.21	mg/Kg		08/05/24 13:55	08/06/24 17:46	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0234	mg/Kg		07/30/24 10:16	07/31/24 10:41	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-3 (0-6")

Lab Sample ID: 570-193109-7

Date Collected: 07/24/24 09:16

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
1,2-Dichlorobenzene	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
1,3-Dichlorobenzene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
1,4-Dichlorobenzene	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
1-Methylnaphthalene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4,5-Trichlorophenol	ND		0.50	0.19	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4,6-Trichlorophenol	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4-Dichlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4-Dimethylphenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4-Dinitrophenol	ND		2.0	0.91	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,4-Dinitrotoluene	ND		0.50	0.081	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,6-Dichlorophenol	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2,6-Dinitrotoluene	ND		0.50	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Chloronaphthalene	ND		0.50	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Chlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Methylnaphthalene	ND		0.50	0.099	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Methylphenol	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Nitroaniline	ND		0.50	0.091	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
2-Nitrophenol	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
3,3'-Dichlorobenzidine	ND		2.5	0.53	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
3/4-Methylphenol	ND		0.99	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
3-Nitroaniline	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.94	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Bromophenyl phenyl ether	ND		0.50	0.073	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Chloro-3-methylphenol	ND		0.50	0.092	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Chloroaniline	ND		0.50	0.082	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Chlorophenyl phenyl ether	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Nitroaniline	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
4-Nitrophenol	ND		0.50	0.31	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Acenaphthene	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Aniline	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Anthracene	ND		0.50	0.077	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Azobenzene	ND		0.50	0.078	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzidine	ND		5.0	0.57	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzo[a]anthracene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzo[a]pyrene	ND		0.50	0.099	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzo[b]fluoranthene	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzo[g,h,i]perylene	ND	*1	0.50	0.089	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzo[k]fluoranthene	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzoic acid	ND		2.5	0.67	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Benzyl alcohol	ND		0.50	0.17	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Bis(2-chloroethoxy)methane	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Bis(2-chloroethyl)ether	ND		2.5	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.22	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Butyl benzyl phthalate	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Chrysene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Dibenz(a,h)anthracene	ND	*1	0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:33	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-3 (0-6")

Lab Sample ID: 570-193109-7

Date Collected: 07/24/24 09:16

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Diethyl phthalate	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Dimethyl phthalate	ND		0.50	0.098	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Di-n-butyl phthalate	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Di-n-octyl phthalate	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Fluoranthene	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Fluorene	ND		0.50	0.093	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Hexachloro-1,3-butadiene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Hexachlorobenzene	ND		0.50	0.080	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Hexachlorocyclopentadiene	ND		1.5	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Hexachloroethane	ND		0.50	0.091	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.50	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Isophorone	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Naphthalene	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Nitrobenzene	ND		2.0	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
N-Nitrosodimethylamine	ND		0.50	0.089	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
N-Nitrosodi-n-propylamine	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Pentachlorophenol	ND		2.5	1.8	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Phenanthrene	ND		0.50	0.072	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Phenol	ND		0.50	0.097	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Pyrene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:33	1
Pyridine	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:33	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	81		10 - 134	07/31/24 18:33	08/04/24 05:33	1
2-Fluorobiphenyl (Surr)	68		14 - 142	07/31/24 18:33	08/04/24 05:33	1
2-Fluorophenol (Surr)	75		10 - 123	07/31/24 18:33	08/04/24 05:33	1
Nitrobenzene-d5 (Surr)	75		10 - 129	07/31/24 18:33	08/04/24 05:33	1
p-Terphenyl-d14 (Surr)	75		31 - 139	07/31/24 18:33	08/04/24 05:33	1
Phenol-d6 (Surr)	70		10 - 120	07/31/24 18:33	08/04/24 05:33	1

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.097	0.043	mg/Kg		08/05/24 10:39	08/05/24 13:16	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	104		42 - 126	08/05/24 10:39	08/05/24 13:16	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.5	mg/Kg		08/03/24 16:24	08/07/24 01:46	1
C23-C40	ND		5.0	4.5	mg/Kg		08/03/24 16:24	08/07/24 01:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	95		60 - 138	08/03/24 16:24	08/07/24 01:46	1

## Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		07/31/24 12:04	08/12/24 13:10	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-3 (0-6")

Lab Sample ID: 570-193109-7

Date Collected: 07/24/24 09:16

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		5.0	0.68	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
alpha-BHC	ND		5.0	0.59	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
beta-BHC	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Dieldrin	ND		5.0	0.55	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endosulfan II	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Endrin ketone	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 13:10	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/12/24 13:10	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	97		38 - 148	07/31/24 12:04	08/12/24 13:10	1
DCB Decachlorobiphenyl (Surr)	122		37 - 151	07/31/24 12:04	08/12/24 13:10	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.481	0.194	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Arsenic	0.810		0.481	0.0758	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Barium	171		0.481	0.266	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Beryllium	ND		0.481	0.383	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Cadmium	ND		0.481	0.0692	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Chromium	26.1		0.481	0.366	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Cobalt	11.1		0.481	0.0492	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Copper	20.2		0.481	0.0891	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Lead	1.60		0.481	0.266	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Molybdenum	0.353 J		0.481	0.237	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Nickel	14.0		0.481	0.326	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Selenium	0.642		0.481	0.366	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Silver	ND		0.962	0.493	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Thallium	0.342 J		0.481	0.153	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Vanadium	67.1		0.481	0.180	mg/Kg		08/05/24 13:55	08/06/24 17:48	5
Zinc	42.1		4.81	2.90	mg/Kg		08/05/24 13:55	08/06/24 17:48	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0234	mg/Kg		07/30/24 10:16	07/31/24 10:43	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-4 (0-6")

Lab Sample ID: 570-193109-8

Date Collected: 07/24/24 09:10

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
1,2-Dichlorobenzene	ND		0.49	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
1,3-Dichlorobenzene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
1,4-Dichlorobenzene	ND		0.49	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
1-Methylnaphthalene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4,5-Trichlorophenol	ND		0.49	0.19	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4,6-Trichlorophenol	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4-Dichlorophenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4-Dimethylphenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4-Dinitrophenol	ND		2.0	0.90	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,4-Dinitrotoluene	ND		0.49	0.080	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,6-Dichlorophenol	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2,6-Dinitrotoluene	ND		0.49	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Chloronaphthalene	ND		0.49	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Chlorophenol	ND		0.49	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Methylnaphthalene	ND		0.49	0.099	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Methylphenol	ND		0.49	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Nitroaniline	ND		0.49	0.090	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
2-Nitrophenol	ND		0.49	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
3,3'-Dichlorobenzidine	ND		2.5	0.53	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
3/4-Methylphenol	ND		0.99	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
3-Nitroaniline	ND		0.49	0.083	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.94	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Bromophenyl phenyl ether	ND		0.49	0.072	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Chloro-3-methylphenol	ND		0.49	0.092	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Chloroaniline	ND		0.49	0.081	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Chlorophenyl phenyl ether	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Nitroaniline	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
4-Nitrophenol	ND		0.49	0.31	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Acenaphthene	ND		0.49	0.078	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Acenaphthylene	ND		0.49	0.095	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Aniline	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Anthracene	ND		0.49	0.077	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Azobenzene	ND		0.49	0.078	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzidine	ND		4.9	0.57	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzo[a]anthracene	ND		0.49	0.082	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzo[a]pyrene	ND		0.49	0.098	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzo[b]fluoranthene	ND		0.49	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzo[g,h,i]perylene	ND	*1	0.49	0.088	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzo[k]fluoranthene	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzoic acid	ND		2.5	0.67	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Benzyl alcohol	ND		0.49	0.17	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Bis(2-chloroethoxy)methane	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Bis(2-chloroethyl)ether	ND		2.5	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
bis (2-Chloroisopropyl) ether	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Bis(2-ethylhexyl) phthalate	ND		0.49	0.22	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Butyl benzyl phthalate	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Chrysene	ND		0.49	0.082	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Dibenz(a,h)anthracene	ND	*1	0.49	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:56	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-4 (0-6")

Lab Sample ID: 570-193109-8

Date Collected: 07/24/24 09:10

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenzofuran	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Diethyl phthalate	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Dimethyl phthalate	ND		0.49	0.097	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Di-n-butyl phthalate	ND		0.49	0.11	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Di-n-octyl phthalate	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Fluoranthene	ND		0.49	0.094	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Fluorene	ND		0.49	0.093	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Hexachloro-1,3-butadiene	ND		0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Hexachlorobenzene	ND		0.49	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Hexachlorocyclopentadiene	ND		1.5	0.086	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Hexachloroethane	ND		0.49	0.091	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Indeno[1,2,3-cd]pyrene	ND	*1	0.49	0.12	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Isophorone	ND		0.49	0.079	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Naphthalene	ND		0.49	0.14	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Nitrobenzene	ND		2.0	0.13	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
N-Nitrosodimethylamine	ND		0.49	0.088	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
N-Nitrosodi-n-propylamine	ND		0.49	0.085	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.49	0.084	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Pentachlorophenol	ND		2.5	1.8	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Phenanthrene	ND		0.49	0.071	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Phenol	ND		0.49	0.096	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Pyrene	ND		0.49	0.10	mg/Kg		07/31/24 18:33	08/04/24 05:56	1
Pyridine	ND		0.49	0.23	mg/Kg		07/31/24 18:33	08/04/24 05:56	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	95		10 - 134	07/31/24 18:33	08/04/24 05:56	1
2-Fluorobiphenyl (Surr)	65		14 - 142	07/31/24 18:33	08/04/24 05:56	1
2-Fluorophenol (Surr)	82		10 - 123	07/31/24 18:33	08/04/24 05:56	1
Nitrobenzene-d5 (Surr)	77		10 - 129	07/31/24 18:33	08/04/24 05:56	1
p-Terphenyl-d14 (Surr)	80		31 - 139	07/31/24 18:33	08/04/24 05:56	1
Phenol-d6 (Surr)	77		10 - 120	07/31/24 18:33	08/04/24 05:56	1

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.097	0.043	mg/Kg		08/05/24 10:39	08/05/24 13:36	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	79		42 - 126	08/05/24 10:39	08/05/24 13:36	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.6	mg/Kg		08/03/24 16:24	08/07/24 02:11	1
C23-C40	ND		5.0	4.6	mg/Kg		08/03/24 16:24	08/07/24 02:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 138	08/03/24 16:24	08/07/24 02:11	1

## Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		07/31/24 12:04	08/11/24 21:46	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: IM-4 (0-6")

Lab Sample ID: 570-193109-8

Date Collected: 07/24/24 09:10

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8081A - Organochlorine Pesticides (GC) (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDE	ND		5.0	0.68	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
alpha-BHC	ND		5.0	0.59	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
beta-BHC	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Dieldrin	ND		5.0	0.55	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endosulfan II	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Endrin ketone	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/11/24 21:46	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/11/24 21:46	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	83		38 - 148	07/31/24 12:04	08/11/24 21:46	1
DCB Decachlorobiphenyl (Surr)	105		37 - 151	07/31/24 12:04	08/11/24 21:46	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.490	0.198	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Arsenic	0.866		0.490	0.0773	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Barium	187		0.490	0.271	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Beryllium	ND		0.490	0.391	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Cadmium	ND		0.490	0.0706	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Chromium	27.0		0.490	0.374	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Cobalt	12.1		0.490	0.0502	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Copper	22.4		0.490	0.0909	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Lead	1.11		0.490	0.271	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Molybdenum	5.00		0.490	0.241	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Nickel	15.1		0.490	0.333	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Selenium	0.724		0.490	0.373	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Silver	ND		0.980	0.502	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Thallium	0.419 J		0.490	0.156	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Vanadium	73.7		0.490	0.184	mg/Kg		08/05/24 13:55	08/06/24 17:56	5
Zinc	47.9		4.90	2.96	mg/Kg		08/05/24 13:55	08/06/24 17:56	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0868	0.0229	mg/Kg		07/30/24 10:16	07/31/24 10:49	1

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# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: BB-1 (1-1.5")

Lab Sample ID: 570-193109-9

Date Collected: 07/24/24 09:57

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.097	0.043	mg/Kg	-	08/05/24 10:39	08/05/24 13:55	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		42 - 126				08/05/24 10:39	08/05/24 13:55	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.6	mg/Kg	-	08/03/24 16:35	08/06/24 07:15	1
C23-C40	ND		5.0	4.6	mg/Kg	-	08/03/24 16:35	08/06/24 07:15	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	96		60 - 138				08/03/24 16:35	08/06/24 07:15	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	0.295	J	0.472	0.190	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Arsenic	5.54		0.472	0.0743	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Barium	142		0.472	0.261	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Beryllium	0.622		0.472	0.376	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Cadmium	0.101	J	0.472	0.0679	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Chromium	27.7		0.472	0.359	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Cobalt	8.45		0.472	0.0483	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Copper	13.4		0.472	0.0875	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Lead	6.49		0.472	0.261	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Molybdenum	0.652		0.472	0.232	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Nickel	15.1		0.472	0.320	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Selenium	1.52		0.472	0.359	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Silver	ND		0.943	0.483	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Thallium	0.274	J	0.472	0.150	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Vanadium	51.4		0.472	0.177	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5
Zinc	43.2		4.72	2.85	mg/Kg	-	08/05/24 13:55	08/06/24 17:58	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0817	0.0216	mg/Kg	-	07/30/24 10:16	07/31/24 10:51	1

# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: BB-2 (1-1.5")

Lab Sample ID: 570-193109-10

Date Collected: 07/24/24 10:07

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8015B - Gasoline Range Organics - (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.10	0.044	mg/Kg	-	08/05/24 10:39	08/05/24 14:14	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	91		42 - 126	08/05/24 10:39	08/05/24 14:14	1

## Method: SW846 8015B - Diesel Range Organics (DRO) (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.5	mg/Kg	-	08/03/24 16:35	08/06/24 07:40	1
C23-C40	ND		5.0	4.5	mg/Kg	-	08/03/24 16:35	08/06/24 07:40	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	102		60 - 138	08/03/24 16:35	08/06/24 07:40	1

## Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.472	0.190	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Arsenic	2.71		0.472	0.0743	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Barium	71.4		0.472	0.261	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Beryllium	ND		0.472	0.376	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Cadmium	ND		0.472	0.0679	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Chromium	14.3		0.472	0.359	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Cobalt	4.50		0.472	0.0483	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Copper	7.95		0.472	0.0875	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Lead	3.34		0.472	0.261	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Molybdenum	0.467	J	0.472	0.232	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Nickel	8.00		0.472	0.320	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Selenium	1.07		0.472	0.359	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Silver	ND		0.943	0.483	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Thallium	ND		0.472	0.150	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Vanadium	28.3		0.472	0.177	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5
Zinc	22.3		4.72	2.85	mg/Kg	-	08/05/24 13:55	08/06/24 18:00	5

## Method: SW846 7471A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0833	0.0220	mg/Kg	-	07/30/24 10:16	07/31/24 10:53	1



# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: FB#1**  
**Date Collected: 07/24/24 10:15**  
**Date Received: 07/26/24 09:40**

**Lab Sample ID: 570-193109-11**  
**Matrix: Water**

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		1.00	0.159	ug/L		07/31/24 07:16	08/01/24 14:15	1	
Lead	ND		1.00	0.118	ug/L		07/31/24 07:16	08/01/24 14:15	1	

# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: EB#1**  
**Date Collected: 07/24/24 10:20**  
**Date Received: 07/26/24 09:40**

**Lab Sample ID: 570-193109-12**  
**Matrix: Water**

Method: EPA 200.8 - Metals (ICP/MS) - Total Recoverable										
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac	
Arsenic	ND		1.00	0.159	ug/L		07/31/24 07:16	08/01/24 14:18	1	
Lead	ND		1.00	0.118	ug/L		07/31/24 07:16	08/01/24 14:18	1	

Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-1 (SURF) DUP  
Date Collected: 07/24/24 08:50  
Date Received: 07/26/24 09:40

Lab Sample ID: 570-193109-13  
Matrix: Solid

Method: SW846 6020 - Metals (ICP/MS)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Lead	6.19		0.508	0.0664	mg/Kg		08/04/24 12:00	08/05/24 13:23	20

# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: AG-2 (SURF) DUP**  
**Date Collected: 07/24/24 08:54**  
**Date Received: 07/26/24 09:40**

**Lab Sample ID: 570-193109-14**  
**Matrix: Solid**

Method: SW846 6020 - Metals (ICP/MS)									
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	3.35		0.490	0.0896	mg/Kg		08/04/24 12:00	08/05/24 13:45	20

- 1
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10
- 11
- 12
- 13
- 14
- 15

# Client Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Client Sample ID: AG-3 (SURF) DUP

Lab Sample ID: 570-193109-15

Date Collected: 07/24/24 08:57

Matrix: Solid

Date Received: 07/26/24 09:40

## Method: SW846 8081A - Organochlorine Pesticides (GC)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.71	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
4,4'-DDE	ND		5.0	0.68	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Aldrin	ND		5.0	1.6	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
alpha-BHC	ND		5.0	0.59	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
beta-BHC	ND		5.0	0.89	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Chlordane	ND		25	4.1	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
delta-BHC	ND		5.0	0.93	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Dieldrin	ND		5.0	0.54	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endosulfan I	ND		5.0	1.1	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endosulfan II	ND		5.0	0.54	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endrin	ND		5.0	0.67	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Endrin ketone	ND		5.0	0.89	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
gamma-Chlordane	ND		5.0	3.3	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
gamma-BHC	ND		5.0	0.51	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Heptachlor	ND		5.0	0.60	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Methoxychlor	ND		5.0	1.2	ug/Kg		08/01/24 12:35	08/07/24 14:11	1
Toxaphene	ND		25	15	ug/Kg		08/01/24 12:35	08/07/24 14:11	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	62		38 - 148	08/01/24 12:35	08/07/24 14:11	1
DCB Decachlorobiphenyl (Surr)	68		37 - 151	08/01/24 12:35	08/07/24 14:11	1

# Surrogate Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		TBP (10-134)	FBP (14-142)	2FP (10-123)	NBZ (10-129)	TPHd14 (31-139)	PHL6 (10-120)
570-193109-5	IM-1 (0-6")	85	68	76	70	84	75
570-193109-6	IM-2 (0-6")	86	74	75	77	83	80
570-193109-7	IM-3 (0-6")	81	68	75	75	75	70
570-193109-8	IM-4 (0-6")	95	65	82	77	80	77
LCS 570-466094/2-A	Lab Control Sample	77	73	95	69	72	102
LCSD 570-466094/3-A	Lab Control Sample Dup	77	64	92	64	68	91
MB 570-466094/1-A	Method Blank	77	72	89	70	61	92

### Surrogate Legend

TBP = 2,4,6-Tribromophenol (Surr)

FBP = 2-Fluorobiphenyl (Surr)

2FP = 2-Fluorophenol (Surr)

NBZ = Nitrobenzene-d5 (Surr)

TPHd14 = p-Terphenyl-d14 (Surr)

PHL6 = Phenol-d6 (Surr)

## Method: 8015B - Gasoline Range Organics - (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		BFB1 (42-126)					
570-193109-5	IM-1 (0-6")	99					
570-193109-6	IM-2 (0-6")	101					
570-193109-7	IM-3 (0-6")	104					
570-193109-8	IM-4 (0-6")	79					
570-193109-9	BB-1 (1-1.5")	97					
570-193109-9 MS	BB-1 (1-1.5")	97					
570-193109-9 MSD	BB-1 (1-1.5")	98					
570-193109-10	BB-2 (1-1.5")	91					
LCS 570-467477/1-A	Lab Control Sample	101					
LCSD 570-467477/2-A	Lab Control Sample Dup	104					
MB 570-467477/3-A	Method Blank	94					

### Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Matrix: Solid

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)					
		OTCSN1 (60-138)					
570-193109-5	IM-1 (0-6")	103					
570-193109-6	IM-2 (0-6")	97					
570-193109-7	IM-3 (0-6")	95					
570-193109-8	IM-4 (0-6")	100					
570-193109-9	BB-1 (1-1.5")	96					
570-193109-10	BB-2 (1-1.5")	102					
LCS 570-466997/2-A	Lab Control Sample	110					
LCS 570-467191/2-A	Lab Control Sample	98					

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# Surrogate Summary

Client: Padre Associates, Inc.

Job ID: 570-193109-1

Project/Site: Hope Elementary School, Porterville, CA

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	OTCSN1 (60-138)
LCSD 570-466997/3-A	Lab Control Sample Dup	105
LCSD 570-467191/3-A	Lab Control Sample Dup	101
MB 570-466997/1-A	Method Blank	100
MB 570-467191/1-A	Method Blank	100

#### Surrogate Legend

OTCSN = n-Octacosane (Surr)

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (38-148)	DCB1 (37-151)
570-193109-1	AG-1 (SURF)	74	96

#### Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

## Method: 8081A - Organochlorine Pesticides (GC)

Matrix: Solid

Prep Type: Total/NA

### Percent Surrogate Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	TCX2 (38-148)	DCB2 (37-151)
570-193109-2	AG-2 (SURF)	78	98
570-193109-3	AG-3 (SURF)	65	78
570-193109-4	AG-4 (SURF)	85	103
570-193109-5	IM-1 (0-6")	92	107
570-193109-6	IM-2 (0-6")	91	116
570-193109-7	IM-3 (0-6")	97	122
570-193109-8	IM-4 (0-6")	83	105
570-193109-15	AG-3 (SURF) DUP	62	68
LCS 570-465949/2-A	Lab Control Sample	79	75
LCS 570-466360/2-A	Lab Control Sample	125	127
LCSD 570-465949/3-A	Lab Control Sample Dup	70	66
LCSD 570-466360/3-A	Lab Control Sample Dup	122	124
MB 570-465949/1-A	Method Blank	59	54
MB 570-466360/1-A	Method Blank	101	110

#### Surrogate Legend

TCX = Tetrachloro-m-xylene (Surr)

DCB = DCB Decachlorobiphenyl (Surr)

# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS)

Lab Sample ID: MB 570-466094/1-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2,4-Trichlorobenzene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
1,2-Dichlorobenzene	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
1,3-Dichlorobenzene	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
1,4-Dichlorobenzene	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
1-Methylnaphthalene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4,5-Trichlorophenol	ND		0.50	0.20	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4,6-Trichlorophenol	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4-Dichlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4-Dimethylphenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4-Dinitrophenol	ND		2.0	0.91	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,4-Dinitrotoluene	ND		0.50	0.081	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,6-Dichlorophenol	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2,6-Dinitrotoluene	ND		0.50	0.086	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Chloronaphthalene	ND		0.50	0.087	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Chlorophenol	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Methylnaphthalene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Methylphenol	ND		0.50	0.097	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Nitroaniline	ND		0.50	0.092	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
2-Nitrophenol	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
3,3'-Dichlorobenzidine	ND		2.5	0.54	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
3/4-Methylphenol	ND		1.0	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
3-Nitroaniline	ND		0.50	0.084	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4,6-Dinitro-2-methylphenol	ND		2.5	0.95	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Bromophenyl phenyl ether	ND		0.50	0.073	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Chloro-3-methylphenol	ND		0.50	0.093	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Chloroaniline	ND		0.50	0.082	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Chlorophenyl phenyl ether	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Nitroaniline	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
4-Nitrophenol	ND		0.50	0.32	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Acenaphthene	ND		0.50	0.079	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Acenaphthylene	ND		0.50	0.096	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Aniline	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Anthracene	ND		0.50	0.078	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Azobenzene	ND		0.50	0.078	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzidine	ND		5.0	0.58	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzo[a]anthracene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzo[a]pyrene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzo[b]fluoranthene	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzo[g,h,i]perylene	ND		0.50	0.089	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzo[k]fluoranthene	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzoic acid	ND		2.5	0.67	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Benzyl alcohol	ND		0.50	0.17	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Bis(2-chloroethoxy)methane	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Bis(2-chloroethyl)ether	ND		2.5	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
bis (2-Chloroisopropyl) ether	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Bis(2-ethylhexyl) phthalate	ND		0.50	0.22	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Butyl benzyl phthalate	ND		0.50	0.24	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Chrysene	ND		0.50	0.083	mg/Kg		07/31/24 18:33	08/02/24 16:03	1

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: MB 570-466094/1-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466094

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Dibenz(a,h)anthracene	ND		0.50	0.080	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Dibenzofuran	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Diethyl phthalate	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Dimethyl phthalate	ND		0.50	0.098	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Di-n-butyl phthalate	ND		0.50	0.11	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Di-n-octyl phthalate	ND		0.50	0.23	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Fluoranthene	ND		0.50	0.095	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Fluorene	ND		0.50	0.094	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Hexachloro-1,3-butadiene	ND		0.50	0.13	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Hexachlorobenzene	ND		0.50	0.080	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Hexachlorocyclopentadiene	ND		1.5	0.087	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Hexachloroethane	ND		0.50	0.092	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Indeno[1,2,3-cd]pyrene	ND		0.50	0.12	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Isophorone	ND		0.50	0.080	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Naphthalene	ND		0.50	0.14	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Nitrobenzene	ND		2.0	0.14	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
N-Nitrosodimethylamine	ND		0.50	0.089	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
N-Nitrosodi-n-propylamine	ND		0.50	0.086	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
n-Nitrosodiphenylamine(as diphenylamine)	ND		0.50	0.085	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Pentachlorophenol	ND		2.5	1.8	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Phenanthrene	ND		0.50	0.072	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Phenol	ND		0.50	0.097	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Pyrene	ND		0.50	0.10	mg/Kg		07/31/24 18:33	08/02/24 16:03	1
Pyridine	ND		0.50	0.24	mg/Kg		07/31/24 18:33	08/02/24 16:03	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
2,4,6-Tribromophenol (Surr)	77		10 - 134	07/31/24 18:33	08/02/24 16:03	1
2-Fluorobiphenyl (Surr)	72		14 - 142	07/31/24 18:33	08/02/24 16:03	1
2-Fluorophenol (Surr)	89		10 - 123	07/31/24 18:33	08/02/24 16:03	1
Nitrobenzene-d5 (Surr)	70		10 - 129	07/31/24 18:33	08/02/24 16:03	1
p-Terphenyl-d14 (Surr)	61		31 - 139	07/31/24 18:33	08/02/24 16:03	1
Phenol-d6 (Surr)	92		10 - 120	07/31/24 18:33	08/02/24 16:03	1

Lab Sample ID: LCS 570-466094/2-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
1,2,4-Trichlorobenzene	5.00	3.486		mg/Kg		70	24 - 137
1,2-Dichlorobenzene	5.00	3.898		mg/Kg		78	24 - 148
1,3-Dichlorobenzene	5.00	3.806		mg/Kg		76	22 - 144
1,4-Dichlorobenzene	5.00	4.041		mg/Kg		81	24 - 143
1-Methylnaphthalene	5.00	4.158		mg/Kg		83	26 - 143
2,4,5-Trichlorophenol	5.00	4.761		mg/Kg		95	24 - 139
2,4,6-Trichlorophenol	5.00	4.515		mg/Kg		90	26 - 140
2,4-Dichlorophenol	5.00	4.357		mg/Kg		87	24 - 139
2,4-Dimethylphenol	5.00	5.359		mg/Kg		107	23 - 136
2,4-Dinitrophenol	5.00	3.983		mg/Kg		80	10 - 174

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-466094/2-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
2,4-Dinitrotoluene	5.00	4.881		mg/Kg		98	28 - 166
2,6-Dichlorophenol	5.00	4.535		mg/Kg		91	23 - 134
2,6-Dinitrotoluene	5.00	4.551		mg/Kg		91	30 - 157
2-Chloronaphthalene	5.00	4.144		mg/Kg		83	30 - 144
2-Chlorophenol	5.00	4.862		mg/Kg		97	26 - 157
2-Methylnaphthalene	5.00	4.138		mg/Kg		83	23 - 134
2-Methylphenol	5.00	5.525		mg/Kg		110	30 - 161
2-Nitroaniline	5.00	4.704		mg/Kg		94	16 - 142
2-Nitrophenol	5.00	3.999		mg/Kg		80	23 - 142
3,3'-Dichlorobenzidine	5.00	4.723		mg/Kg		94	28 - 143
3/4-Methylphenol	10.0	11.09		mg/Kg		111	10 - 120
3-Nitroaniline	5.00	4.630		mg/Kg		93	25 - 138
4,6-Dinitro-2-methylphenol	5.00	3.822		mg/Kg		76	10 - 144
4-Bromophenyl phenyl ether	5.00	3.717		mg/Kg		74	33 - 150
4-Chloro-3-methylphenol	5.00	4.860		mg/Kg		97	23 - 142
4-Chloroaniline	5.00	4.497		mg/Kg		90	12 - 120
4-Chlorophenyl phenyl ether	5.00	4.442		mg/Kg		89	29 - 143
4-Nitroaniline	5.00	5.211		mg/Kg		104	26 - 147
4-Nitrophenol	5.00	5.223		mg/Kg		104	10 - 145
Acenaphthene	5.00	4.126		mg/Kg		83	30 - 144
Acenaphthylene	5.00	4.282		mg/Kg		86	28 - 148
Aniline	5.00	4.665		mg/Kg		93	10 - 120
Anthracene	5.00	4.511		mg/Kg		90	30 - 149
Azobenzene	5.00	3.099		mg/Kg		62	14 - 147
Benzidine	5.00	3.243	J	mg/Kg		65	10 - 120
Benzo[a]anthracene	5.00	4.407		mg/Kg		88	27 - 156
Benzo[a]pyrene	5.00	5.320		mg/Kg		106	36 - 157
Benzo[b]fluoranthene	5.00	4.901		mg/Kg		98	35 - 159
Benzo[g,h,i]perylene	5.00	4.539		mg/Kg		91	30 - 156
Benzo[k]fluoranthene	5.00	4.651		mg/Kg		93	35 - 159
Benzoic acid	5.00	3.405		mg/Kg		68	10 - 136
Benzyl alcohol	5.00	4.901		mg/Kg		98	18 - 154
Bis(2-chloroethoxy)methane	5.00	3.935		mg/Kg		79	21 - 140
Bis(2-chloroethyl)ether	5.00	4.234		mg/Kg		85	22 - 151
bis (2-Chloroisopropyl) ether	5.00	4.194		mg/Kg		84	10 - 179
Bis(2-ethylhexyl) phthalate	5.00	3.959		mg/Kg		79	23 - 166
Butyl benzyl phthalate	5.00	4.107		mg/Kg		82	18 - 170
Chrysene	5.00	4.537		mg/Kg		91	28 - 145
Dibenz(a,h)anthracene	5.00	5.065		mg/Kg		101	32 - 149
Dibenzofuran	5.00	4.113		mg/Kg		82	29 - 143
Diethyl phthalate	5.00	4.415		mg/Kg		88	26 - 151
Dimethyl phthalate	5.00	4.810		mg/Kg		96	27 - 150
Di-n-butyl phthalate	5.00	4.514		mg/Kg		90	27 - 152
Di-n-octyl phthalate	5.00	4.651		mg/Kg		93	40 - 178
Fluoranthene	5.00	4.957		mg/Kg		99	33 - 156
Fluorene	5.00	4.480		mg/Kg		90	27 - 146
Hexachloro-1,3-butadiene	5.00	3.561		mg/Kg		71	22 - 140
Hexachlorobenzene	5.00	3.634		mg/Kg		73	20 - 143
Hexachlorocyclopentadiene	5.00	4.711		mg/Kg		94	10 - 172

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCS 570-466094/2-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Hexachloroethane	5.00	3.389		mg/Kg		68	22 - 144
Indeno[1,2,3-cd]pyrene	5.00	5.146		mg/Kg		103	38 - 157
Isophorone	5.00	3.775		mg/Kg		76	15 - 165
Naphthalene	5.00	4.125		mg/Kg		82	25 - 140
Nitrobenzene	5.00	3.741		mg/Kg		75	17 - 136
N-Nitrosodimethylamine	5.00	2.764		mg/Kg		55	10 - 134
N-Nitrosodi-n-propylamine	5.00	4.812		mg/Kg		96	16 - 158
n-Nitrosodiphenylamine(as diphenylamine)	5.00	4.474		mg/Kg		89	33 - 166
Pentachlorophenol	5.00	4.603		mg/Kg		92	10 - 141
Phenanthrene	5.00	4.175		mg/Kg		84	29 - 144
Phenol	5.00	5.064		mg/Kg		101	19 - 164
Pyrene	5.00	4.015		mg/Kg		80	17 - 156
Pyridine	5.00	2.309		mg/Kg		46	10 - 120

Surrogate	LCS %Recovery	LCS Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		10 - 134
2-Fluorobiphenyl (Surr)	73		14 - 142
2-Fluorophenol (Surr)	95		10 - 123
Nitrobenzene-d5 (Surr)	69		10 - 129
p-Terphenyl-d14 (Surr)	72		31 - 139
Phenol-d6 (Surr)	102		10 - 120

Lab Sample ID: LCSD 570-466094/3-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
1,2,4-Trichlorobenzene	5.00	3.419		mg/Kg		68	24 - 137	2	30
1,2-Dichlorobenzene	5.00	3.708		mg/Kg		74	24 - 148	5	30
1,3-Dichlorobenzene	5.00	3.620		mg/Kg		72	22 - 144	5	30
1,4-Dichlorobenzene	5.00	3.627		mg/Kg		73	24 - 143	11	30
1-Methylnaphthalene	5.00	3.658		mg/Kg		73	26 - 143	13	24
2,4,5-Trichlorophenol	5.00	3.961		mg/Kg		79	24 - 139	18	21
2,4,6-Trichlorophenol	5.00	3.693		mg/Kg		74	26 - 140	20	23
2,4-Dichlorophenol	5.00	4.261		mg/Kg		85	24 - 139	2	27
2,4-Dimethylphenol	5.00	5.018		mg/Kg		100	23 - 136	7	27
2,4-Dinitrophenol	5.00	3.457		mg/Kg		69	10 - 174	14	27
2,4-Dinitrotoluene	5.00	4.403		mg/Kg		88	28 - 166	10	27
2,6-Dichlorophenol	5.00	3.880		mg/Kg		78	23 - 134	16	25
2,6-Dinitrotoluene	5.00	3.898		mg/Kg		78	30 - 157	15	25
2-Chloronaphthalene	5.00	3.645		mg/Kg		73	30 - 144	13	22
2-Chlorophenol	5.00	4.646		mg/Kg		93	26 - 157	5	30
2-Methylnaphthalene	5.00	3.787		mg/Kg		76	23 - 134	9	27
2-Methylphenol	5.00	4.708		mg/Kg		94	30 - 161	16	28
2-Nitroaniline	5.00	3.704		mg/Kg		74	16 - 142	24	30
2-Nitrophenol	5.00	3.735		mg/Kg		75	23 - 142	7	30
3,3'-Dichlorobenzidine	5.00	4.165		mg/Kg		83	28 - 143	13	23
3/4-Methylphenol	10.0	10.52		mg/Kg		105	10 - 120	5	30

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-466094/3-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
3-Nitroaniline	5.00	4.043		mg/Kg		81	25 - 138	14	27
4,6-Dinitro-2-methylphenol	5.00	3.915		mg/Kg		78	10 - 144	2	23
4-Bromophenyl phenyl ether	5.00	3.621		mg/Kg		72	33 - 150	3	22
4-Chloro-3-methylphenol	5.00	4.373		mg/Kg		87	23 - 142	11	30
4-Chloroaniline	5.00	3.633		mg/Kg		73	12 - 120	21	29
4-Chlorophenyl phenyl ether	5.00	4.109		mg/Kg		82	29 - 143	8	23
4-Nitroaniline	5.00	4.626		mg/Kg		93	26 - 147	12	29
4-Nitrophenol	5.00	4.830		mg/Kg		97	10 - 145	8	30
Acenaphthene	5.00	3.706		mg/Kg		74	30 - 144	11	22
Acenaphthylene	5.00	3.756		mg/Kg		75	28 - 148	13	25
Aniline	5.00	4.457		mg/Kg		89	10 - 120	5	30
Anthracene	5.00	3.922		mg/Kg		78	30 - 149	14	24
Azobenzene	5.00	3.405		mg/Kg		68	14 - 147	9	30
Benzidine	5.00	3.411	J	mg/Kg		68	10 - 120	5	30
Benzo[a]anthracene	5.00	3.949		mg/Kg		79	27 - 156	11	24
Benzo[a]pyrene	5.00	5.112		mg/Kg		102	36 - 157	4	21
Benzo[b]fluoranthene	5.00	4.628		mg/Kg		93	35 - 159	6	21
Benzo[g,h,i]perylene	5.00	3.352	*1	mg/Kg		67	30 - 156	30	25
Benzo[k]fluoranthene	5.00	4.570		mg/Kg		91	35 - 159	2	22
Benzoic acid	5.00	3.335		mg/Kg		67	10 - 136	2	20
Benzyl alcohol	5.00	4.511		mg/Kg		90	18 - 154	8	30
Bis(2-chloroethoxy)methane	5.00	3.457		mg/Kg		69	21 - 140	13	29
Bis(2-chloroethyl)ether	5.00	3.994		mg/Kg		80	22 - 151	6	30
bis (2-Chloroisopropyl) ether	5.00	4.000		mg/Kg		80	10 - 179	5	30
Bis(2-ethylhexyl) phthalate	5.00	3.637		mg/Kg		73	23 - 166	8	27
Butyl benzyl phthalate	5.00	3.555		mg/Kg		71	18 - 170	14	29
Chrysene	5.00	3.758		mg/Kg		75	28 - 145	19	21
Dibenz(a,h)anthracene	5.00	3.611	*1	mg/Kg		72	32 - 149	34	25
Dibenzofuran	5.00	3.752		mg/Kg		75	29 - 143	9	24
Diethyl phthalate	5.00	4.043		mg/Kg		81	26 - 151	9	26
Dimethyl phthalate	5.00	4.196		mg/Kg		84	27 - 150	14	24
Di-n-butyl phthalate	5.00	3.927		mg/Kg		79	27 - 152	14	27
Di-n-octyl phthalate	5.00	4.103		mg/Kg		82	40 - 178	13	21
Fluoranthene	5.00	4.685		mg/Kg		94	33 - 156	6	26
Fluorene	5.00	3.961		mg/Kg		79	27 - 146	12	26
Hexachloro-1,3-butadiene	5.00	3.627		mg/Kg		73	22 - 140	2	30
Hexachlorobenzene	5.00	3.454		mg/Kg		69	20 - 143	5	25
Hexachlorocyclopentadiene	5.00	4.419		mg/Kg		88	10 - 172	6	27
Hexachloroethane	5.00	3.316		mg/Kg		66	22 - 144	2	30
Indeno[1,2,3-cd]pyrene	5.00	3.495	*1	mg/Kg		70	38 - 157	38	25
Isophorone	5.00	3.525		mg/Kg		71	15 - 165	7	30
Naphthalene	5.00	3.710		mg/Kg		74	25 - 140	11	28
Nitrobenzene	5.00	3.541		mg/Kg		71	17 - 136	5	30
N-Nitrosodimethylamine	5.00	2.907		mg/Kg		58	10 - 134	5	30
N-Nitrosodi-n-propylamine	5.00	4.557		mg/Kg		91	16 - 158	5	30
n-Nitrosodiphenylamine(as diphenylamine)	5.00	4.652		mg/Kg		93	33 - 166	4	23
Pentachlorophenol	5.00	4.168		mg/Kg		83	10 - 141	10	25
Phenanthrene	5.00	3.797		mg/Kg		76	29 - 144	9	23

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8270C - Semivolatile Organic Compounds (GC/MS) (Continued)

Lab Sample ID: LCSD 570-466094/3-A

Matrix: Solid

Analysis Batch: 466727

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466094

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Phenol	5.00	4.744		mg/Kg		95	19 - 164	7	30
Pyrene	5.00	3.946		mg/Kg		79	17 - 156	2	27
Pyridine	5.00	2.719		mg/Kg		54	10 - 120	16	30

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
2,4,6-Tribromophenol (Surr)	77		10 - 134
2-Fluorobiphenyl (Surr)	64		14 - 142
2-Fluorophenol (Surr)	92		10 - 123
Nitrobenzene-d5 (Surr)	64		10 - 129
p-Terphenyl-d14 (Surr)	68		31 - 139
Phenol-d6 (Surr)	91		10 - 120

## Method: 8015B - Gasoline Range Organics - (GC)

Lab Sample ID: MB 570-467477/3-A

Matrix: Solid

Analysis Batch: 467420

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467477

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Gasoline Range Organics (C4-C12)	ND		0.099	0.044	mg/Kg		08/05/24 10:39	08/05/24 11:42	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	94		42 - 126	08/05/24 10:39	08/05/24 11:42	1

Lab Sample ID: LCS 570-467477/1-A

Matrix: Solid

Analysis Batch: 467420

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467477

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Gasoline Range Organics (C4-C13)	2.00	1.921		mg/Kg		96	70 - 124

Surrogate	LCS %Recovery	LCS Qualifier	Limits
4-Bromofluorobenzene (Surr)	101		42 - 126

Lab Sample ID: LCSD 570-467477/2-A

Matrix: Solid

Analysis Batch: 467420

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 467477

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	2.00	1.897		mg/Kg		95	70 - 124	1	18

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
4-Bromofluorobenzene (Surr)	104		42 - 126

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8015B - Gasoline Range Organics - (GC) (Continued)

Lab Sample ID: 570-193109-9 MS

Matrix: Solid

Analysis Batch: 467420

Client Sample ID: BB-1 (1-1.5")

Prep Type: Total/NA

Prep Batch: 467477

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits		
Gasoline Range Organics (C4-C13)	ND		1.93	1.787		mg/Kg		93	48 - 114		
Surrogate	MS %Recovery	MS Qualifier	MS Limits								
4-Bromofluorobenzene (Surr)	97		42 - 126								

Lab Sample ID: 570-193109-9 MSD

Matrix: Solid

Analysis Batch: 467420

Client Sample ID: BB-1 (1-1.5")

Prep Type: Total/NA

Prep Batch: 467477

Top Entry 10/17											
Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Gasoline Range Organics (C4-C13)	ND		1.91	1.850		mg/Kg	-	97	48 - 114	3	23
Surrogate	MSD %Recovery	MSD Qualifier	MSD Limits								
4-Bromofluorobenzene (Surr)	98		42 - 126								

## Method: 8015B - Diesel Range Organics (DRO) (GC)

Lab Sample ID: MB 570-466997/1-A

Matrix: Solid

Analysis Batch: 467146

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466997

	MB	MB							
Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.6	mg/Kg		08/02/24 18:01	08/03/24 13:43	1
C23-C40	ND		5.0	4.6	mg/Kg		08/02/24 18:01	08/03/24 13:43	1
	MB	MB							
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 138				08/02/24 18:01	08/03/24 13:43	1

Lab Sample ID: LCS 570-466997/2-A

Matrix: Solid

Analysis Batch: 467146

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466997

			Spike	LCS	LCS				%Rec		
Analyte			Added	Result	Qualifier	Unit	D	%Rec	Limits		
Diesel Range Organics [C10-C28]			400	418.6		mg/Kg		105	80 - 130		
Surrogate	LCS	LCS									
	%Recovery	Qualifier	Limits								
n-Octacosane (Surr)	110		60 - 138								

Lab Sample ID: LCSD 570-466997/3-A

Matrix: Solid

Analysis Batch: 467146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466997

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Diesel Range Organics [C10-C28]	400	404.4		mg/Kg		101	80 - 130	3	20

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8015B - Diesel Range Organics (DRO) (GC) (Continued)

Lab Sample ID: LCSD 570-466997/3-A

Matrix: Solid

Analysis Batch: 467146

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466997

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
n-Octacosane (Surr)	105		60 - 138

Lab Sample ID: MB 570-467191/1-A

Matrix: Solid

Analysis Batch: 467681

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 467191

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
C13-C22	ND		5.0	4.6	mg/Kg		08/03/24 16:35	08/06/24 01:48	1
C23-C40	ND		5.0	4.6	mg/Kg		08/03/24 16:35	08/06/24 01:48	1
Surrogate	MB	MB	Limits				Prepared	Analyzed	Dil Fac
n-Octacosane (Surr)	100		60 - 138				08/03/24 16:35	08/06/24 01:48	1

Lab Sample ID: LCS 570-467191/2-A

Matrix: Solid

Analysis Batch: 467681

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 467191

Analyte	Spike	LCS	LCS	Unit	D	%Rec	%Rec
Diesel Range Organics [C10-C28]	400	408.7		mg/Kg		102	80 - 130
Surrogate	LCS	LCS	Limits				
n-Octacosane (Surr)	98		60 - 138				

Lab Sample ID: LCSD 570-467191/3-A

Matrix: Solid

Analysis Batch: 467681

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 467191

Analyte	Spike	LCSD	LCSD	Unit	D	%Rec	%Rec	RPD
Diesel Range Organics [C10-C28]	400	406.0		mg/Kg		102	80 - 130	1 20
Surrogate	LCSD	LCSD	Limits					
n-Octacosane (Surr)	101		60 - 138					

## Method: 8081A - Organochlorine Pesticides (GC)

Lab Sample ID: MB 570-465949/1-A

Matrix: Solid

Analysis Batch: 469666

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 465949

Analyte	MB	MB	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Aldrin	ND		5.0	1.6	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
alpha-BHC	ND		5.0	0.59	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		07/31/24 12:04	08/12/24 00:23	1

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 570-465949/1-A

Matrix: Solid

Analysis Batch: 469666

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 465949

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
beta-BHC	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Chlordane	ND		25	4.1	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
delta-BHC	ND		5.0	0.93	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Dieldrin	ND		5.0	0.55	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endosulfan I	ND		5.0	1.1	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endosulfan II	ND		5.0	0.55	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endrin	ND		5.0	0.67	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Endrin ketone	ND		5.0	0.90	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
gamma-BHC	ND		5.0	0.51	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Heptachlor	ND		5.0	0.60	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Methoxychlor	ND		5.0	1.2	ug/Kg		07/31/24 12:04	08/12/24 00:23	1
Toxaphene	ND		25	15	ug/Kg		07/31/24 12:04	08/12/24 00:23	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	59		38 - 148	07/31/24 12:04	08/12/24 00:23	1
DCB Decachlorobiphenyl (Surr)	54		37 - 151	07/31/24 12:04	08/12/24 00:23	1

Lab Sample ID: LCS 570-465949/2-A

Matrix: Solid

Analysis Batch: 469666

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 465949

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
4,4'-DDD	25.0	24.86		ug/Kg		99	54 - 154
4,4'-DDE	25.0	24.67		ug/Kg		99	51 - 149
4,4'-DDT	25.0	24.29		ug/Kg		97	39 - 152
Aldrin	25.0	23.35		ug/Kg		93	52 - 138
alpha-BHC	25.0	24.44		ug/Kg		98	51 - 140
alpha-Chlordane	25.0	24.57		ug/Kg		98	53 - 141
beta-BHC	25.0	22.85		ug/Kg		91	53 - 141
delta-BHC	25.0	21.30		ug/Kg		85	20 - 132
Dieldrin	25.0	24.06		ug/Kg		96	52 - 144
Endosulfan I	25.0	23.59		ug/Kg		94	49 - 139
Endosulfan II	25.0	24.19		ug/Kg		97	51 - 150
Endosulfan sulfate	25.0	23.18		ug/Kg		93	45 - 139
Endrin	25.0	23.85		ug/Kg		95	53 - 151
Endrin aldehyde	25.0	22.02		ug/Kg		88	31 - 146
Endrin ketone	25.0	23.78		ug/Kg		95	51 - 150
gamma-Chlordane	25.0	24.23		ug/Kg		97	46 - 156
gamma-BHC	25.0	24.26		ug/Kg		97	53 - 141
Heptachlor	25.0	24.05		ug/Kg		96	52 - 144
Heptachlor epoxide	25.0	22.80		ug/Kg		91	54 - 141
Methoxychlor	25.0	23.08		ug/Kg		92	47 - 148

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCS 570-465949/2-A  
Matrix: Solid  
Analysis Batch: 469666

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 465949

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	79		38 - 148
DCB Decachlorobiphenyl (Surr)	75		37 - 151

Lab Sample ID: LCSD 570-465949/3-A  
Matrix: Solid  
Analysis Batch: 469666

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 465949

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	25.0	24.07		ug/Kg		96	54 - 154	3	30
4,4'-DDE	25.0	23.82		ug/Kg		95	51 - 149	4	28
4,4'-DDT	25.0	23.56		ug/Kg		94	39 - 152	3	31
Aldrin	25.0	22.41		ug/Kg		90	52 - 138	4	30
alpha-BHC	25.0	23.35		ug/Kg		93	51 - 140	5	29
alpha-Chlordane	25.0	23.60		ug/Kg		94	53 - 141	4	28
beta-BHC	25.0	21.84		ug/Kg		87	53 - 141	5	29
delta-BHC	25.0	20.39		ug/Kg		82	20 - 132	4	40
Dieldrin	25.0	23.17		ug/Kg		93	52 - 144	4	28
Endosulfan I	25.0	22.65		ug/Kg		91	49 - 139	4	28
Endosulfan II	25.0	23.40		ug/Kg		94	51 - 150	3	29
Endosulfan sulfate	25.0	22.52		ug/Kg		90	45 - 139	3	30
Endrin	25.0	22.97		ug/Kg		92	53 - 151	4	29
Endrin aldehyde	25.0	21.33		ug/Kg		85	31 - 146	3	40
Endrin ketone	25.0	23.17		ug/Kg		93	51 - 150	3	30
gamma-Chlordane	25.0	23.20		ug/Kg		93	46 - 156	4	39
gamma-BHC	25.0	23.05		ug/Kg		92	53 - 141	5	29
Heptachlor	25.0	23.00		ug/Kg		92	52 - 144	4	29
Heptachlor epoxide	25.0	21.74		ug/Kg		87	54 - 141	5	29
Methoxychlor	25.0	22.61		ug/Kg		90	47 - 148	2	29

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
Tetrachloro-m-xylene (Surr)	70		38 - 148
DCB Decachlorobiphenyl (Surr)	66		37 - 151

Lab Sample ID: MB 570-466360/1-A  
Matrix: Solid  
Analysis Batch: 467732

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 466360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4,4'-DDD	ND		5.0	0.72	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
4,4'-DDE	ND		5.0	0.69	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
4,4'-DDT	ND		5.0	1.2	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Aldrin	ND		5.0	1.6	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
alpha-BHC	ND		5.0	0.59	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
alpha-Chlordane	ND		5.0	0.56	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
beta-BHC	ND		5.0	0.90	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Chlordane	ND		25	4.1	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
delta-BHC	ND		5.0	0.93	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Dieldrin	ND		5.0	0.55	ug/Kg		08/01/24 12:32	08/06/24 16:34	1

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: MB 570-466360/1-A

Matrix: Solid

Analysis Batch: 467732

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 466360

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Endosulfan I	ND		5.0	1.1	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Endosulfan II	ND		5.0	0.55	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Endosulfan sulfate	ND		5.0	0.63	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Endrin	ND		5.0	0.67	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Endrin aldehyde	ND		5.0	3.3	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Endrin ketone	ND		5.0	0.90	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
gamma-Chlordane	ND		5.0	3.4	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
gamma-BHC	ND		5.0	0.51	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Heptachlor	ND		5.0	0.60	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Heptachlor epoxide	ND		5.0	0.54	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Methoxychlor	ND		5.0	1.2	ug/Kg		08/01/24 12:32	08/06/24 16:34	1
Toxaphene	ND		25	15	ug/Kg		08/01/24 12:32	08/06/24 16:34	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Tetrachloro-m-xylene (Surr)	101		38 - 148	08/01/24 12:32	08/06/24 16:34	1
DCB Decachlorobiphenyl (Surr)	110		37 - 151	08/01/24 12:32	08/06/24 16:34	1

Lab Sample ID: LCS 570-466360/2-A

Matrix: Solid

Analysis Batch: 467732

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 466360

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
4,4'-DDD	25.0	25.57		ug/Kg		102	54 - 154
4,4'-DDE	25.0	24.09		ug/Kg		96	51 - 149
4,4'-DDT	25.0	26.15		ug/Kg		105	39 - 152
Aldrin	25.0	21.79		ug/Kg		87	52 - 138
alpha-BHC	25.0	23.18		ug/Kg		93	51 - 140
alpha-Chlordane	25.0	24.06		ug/Kg		96	53 - 141
beta-BHC	25.0	20.55		ug/Kg		82	53 - 141
delta-BHC	25.0	20.54		ug/Kg		82	20 - 132
Dieldrin	25.0	23.67		ug/Kg		95	52 - 144
Endosulfan I	25.0	23.03		ug/Kg		92	49 - 139
Endosulfan II	25.0	23.89		ug/Kg		96	51 - 150
Endosulfan sulfate	25.0	23.22		ug/Kg		93	45 - 139
Endrin	25.0	24.18		ug/Kg		97	53 - 151
Endrin aldehyde	25.0	22.34		ug/Kg		89	31 - 146
Endrin ketone	25.0	23.19		ug/Kg		93	51 - 150
gamma-Chlordane	25.0	23.29		ug/Kg		93	46 - 156
gamma-BHC	25.0	23.31		ug/Kg		93	53 - 141
Heptachlor	25.0	23.77		ug/Kg		95	52 - 144
Heptachlor epoxide	25.0	23.74		ug/Kg		95	54 - 141
Methoxychlor	25.0	25.09		ug/Kg		100	47 - 148

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Tetrachloro-m-xylene (Surr)	125		38 - 148
DCB Decachlorobiphenyl (Surr)	127		37 - 151

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 8081A - Organochlorine Pesticides (GC) (Continued)

Lab Sample ID: LCSD 570-466360/3-A

Matrix: Solid

Analysis Batch: 467732

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 466360

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
4,4'-DDD	25.0	24.62		ug/Kg		98	54 - 154	4	30
4,4'-DDE	25.0	23.37		ug/Kg		93	51 - 149	3	28
4,4'-DDT	25.0	25.12		ug/Kg		100	39 - 152	4	31
Aldrin	25.0	20.68		ug/Kg		83	52 - 138	5	30
alpha-BHC	25.0	21.58		ug/Kg		86	51 - 140	7	29
alpha-Chlordane	25.0	23.19		ug/Kg		93	53 - 141	4	28
beta-BHC	25.0	19.83		ug/Kg		79	53 - 141	4	29
delta-BHC	25.0	19.47		ug/Kg		78	20 - 132	5	40
Dieldrin	25.0	22.83		ug/Kg		91	52 - 144	4	28
Endosulfan I	25.0	22.21		ug/Kg		89	49 - 139	4	28
Endosulfan II	25.0	22.72		ug/Kg		91	51 - 150	5	29
Endosulfan sulfate	25.0	22.13		ug/Kg		89	45 - 139	5	30
Endrin	25.0	23.18		ug/Kg		93	53 - 151	4	29
Endrin aldehyde	25.0	21.29		ug/Kg		85	31 - 146	5	40
Endrin ketone	25.0	22.02		ug/Kg		88	51 - 150	5	30
gamma-Chlordane	25.0	22.40		ug/Kg		90	46 - 156	4	39
gamma-BHC	25.0	21.77		ug/Kg		87	53 - 141	7	29
Heptachlor	25.0	22.25		ug/Kg		89	52 - 144	7	29
Heptachlor epoxide	25.0	22.79		ug/Kg		91	54 - 141	4	29
Methoxychlor	25.0	24.00		ug/Kg		96	47 - 148	4	29

Surrogate	LCSD %Recovery	LCSD Qualifier	Limits
Tetrachloro-m-xylene (Surr)	122		38 - 148
DCB Decachlorobiphenyl (Surr)	124		37 - 151

## Method: 200.8 - Metals (ICP/MS)

Lab Sample ID: MB 570-465803/1-A

Matrix: Water

Analysis Batch: 466520

Client Sample ID: Method Blank

Prep Type: Total Recoverable

Prep Batch: 465803

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		1.00	0.159	ug/L		07/31/24 07:16	08/01/24 16:51	1
Lead	ND		1.00	0.118	ug/L		07/31/24 07:16	08/01/24 16:51	1

Lab Sample ID: LCS 570-465803/2-A

Matrix: Water

Analysis Batch: 466520

Client Sample ID: Lab Control Sample

Prep Type: Total Recoverable

Prep Batch: 465803

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	80.0	83.22		ug/L		104	85 - 115
Lead	80.0	83.90		ug/L		105	85 - 115

Lab Sample ID: LCSD 570-465803/3-A

Matrix: Water

Analysis Batch: 466520

Client Sample ID: Lab Control Sample Dup

Prep Type: Total Recoverable

Prep Batch: 465803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	80.0	81.81		ug/L		102	85 - 115	2	20

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 200.8 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-465803/3-A  
Matrix: Water  
Analysis Batch: 466520

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total Recoverable  
Prep Batch: 465803

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	80.0	84.45		ug/L		106	85 - 115	1	20

## Method: 6020 - Metals (ICP/MS)

Lab Sample ID: MB 570-466835/1-A ^20  
Matrix: Solid  
Analysis Batch: 467617

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 466835

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.500	0.0914	mg/Kg		08/04/24 12:00	08/05/24 13:04	20
Lead	ND		0.500	0.0654	mg/Kg		08/04/24 12:00	08/05/24 13:04	20

Lab Sample ID: LCS 570-466835/2-A ^20  
Matrix: Solid  
Analysis Batch: 467617

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 466835

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.0	46.03		mg/Kg		92	80 - 120
Lead	50.0	46.67		mg/Kg		93	80 - 120

Lab Sample ID: LCSD 570-466835/3-A ^20  
Matrix: Solid  
Analysis Batch: 467617

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 466835

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	50.0	43.60		mg/Kg		87	80 - 120	5	20
Lead	50.0	44.82		mg/Kg		90	80 - 120	4	20

Lab Sample ID: MB 570-467482/1-A ^20  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 467482

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		0.505	0.0923	mg/Kg		08/05/24 10:42	08/06/24 17:05	20
Lead	ND		0.505	0.0661	mg/Kg		08/05/24 10:42	08/06/24 17:05	20

Lab Sample ID: LCS 570-467482/2-A ^20  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 467482

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Arsenic	50.5	46.76		mg/Kg		93	80 - 120
Lead	50.5	49.67		mg/Kg		98	80 - 120

Lab Sample ID: LCSD 570-467482/3-A ^20  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 467482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Arsenic	49.8	52.16		mg/Kg		105	80 - 120	11	20

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-467482/3-A ^20  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Lab Control Sample Dup  
Prep Type: Total/NA  
Prep Batch: 467482

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Lead	49.8	54.96		mg/Kg		110	80 - 120	10	20

Lab Sample ID: MB 570-467599/1-A ^5  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Method Blank  
Prep Type: Total/NA  
Prep Batch: 467599

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		0.521	0.210	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Arsenic	ND		0.521	0.0821	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Barium	ND		0.521	0.288	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Beryllium	ND		0.521	0.415	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Cadmium	ND		0.521	0.0750	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Chromium	ND		0.521	0.397	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Cobalt	ND		0.521	0.0533	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Copper	ND		0.521	0.0966	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Lead	ND		0.521	0.288	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Molybdenum	ND		0.521	0.256	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Nickel	ND		0.521	0.354	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Selenium	ND		0.521	0.396	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Silver	ND		1.04	0.534	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Thallium	ND		0.521	0.166	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Vanadium	ND		0.521	0.195	mg/Kg		08/05/24 13:55	08/06/24 17:29	5
Zinc	ND		5.21	3.14	mg/Kg		08/05/24 13:55	08/06/24 17:29	5

Lab Sample ID: LCS 570-467599/2-A ^5  
Matrix: Solid  
Analysis Batch: 468126

Client Sample ID: Lab Control Sample  
Prep Type: Total/NA  
Prep Batch: 467599

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Antimony	208	219.0		mg/Kg		105	80 - 120
Arsenic	208	202.0		mg/Kg		97	80 - 120
Barium	208	217.6		mg/Kg		104	80 - 120
Beryllium	208	224.3		mg/Kg		108	80 - 120
Cadmium	208	209.3		mg/Kg		100	80 - 120
Chromium	208	217.6		mg/Kg		104	80 - 120
Cobalt	208	220.9		mg/Kg		106	80 - 120
Copper	208	210.8		mg/Kg		101	80 - 120
Lead	208	226.4		mg/Kg		109	80 - 120
Molybdenum	208	214.6		mg/Kg		103	80 - 120
Nickel	208	214.1		mg/Kg		103	80 - 120
Selenium	208	195.7		mg/Kg		94	80 - 120
Silver	104	111.9		mg/Kg		107	80 - 120
Thallium	208	214.0		mg/Kg		103	80 - 120
Vanadium	208	222.2		mg/Kg		107	80 - 120
Zinc	208	196.3		mg/Kg		94	80 - 120

# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: LCSD 570-467599/3-A ^5

Matrix: Solid

Analysis Batch: 468126

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 467599

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	208	221.8		mg/Kg		106	80 - 120	1	20
Arsenic	208	202.4		mg/Kg		97	80 - 120	0	20
Barium	208	219.1		mg/Kg		105	80 - 120	1	20
Beryllium	208	225.5		mg/Kg		108	80 - 120	1	20
Cadmium	208	210.2		mg/Kg		101	80 - 120	0	20
Chromium	208	214.7		mg/Kg		103	80 - 120	1	20
Cobalt	208	222.1		mg/Kg		107	80 - 120	1	20
Copper	208	213.8		mg/Kg		103	80 - 120	1	20
Lead	208	223.7		mg/Kg		107	80 - 120	1	20
Molybdenum	208	215.9		mg/Kg		104	80 - 120	1	20
Nickel	208	215.5		mg/Kg		103	80 - 120	1	20
Selenium	208	195.4		mg/Kg		94	80 - 120	0	20
Silver	104	113.2		mg/Kg		109	80 - 120	1	20
Thallium	208	212.7		mg/Kg		102	80 - 120	1	20
Vanadium	208	215.2		mg/Kg		103	80 - 120	3	20
Zinc	208	195.8		mg/Kg		94	80 - 120	0	20

Lab Sample ID: 570-193109-5 MS

Matrix: Solid

Analysis Batch: 468126

Client Sample ID: IM-1 (0-6")

Prep Type: Total/NA

Prep Batch: 467599

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.13		189	181.2		mg/Kg		95	75 - 125		
Arsenic	1.10	F2 F1	189	181.1		mg/Kg		95	75 - 125		
Barium	198	F1	189	415.1		mg/Kg		115	75 - 125		
Beryllium	ND	F2 F1	189	190.5		mg/Kg		101	75 - 125		
Cadmium	0.0813	J F2 F1	189	188.0		mg/Kg		100	75 - 125		
Chromium	27.5	F2 F1	189	208.1		mg/Kg		96	75 - 125		
Cobalt	12.5	F2 F1	189	191.8		mg/Kg		95	75 - 125		
Copper	22.8	F2 F1	189	201.2		mg/Kg		95	75 - 125		
Lead	1.49	F2 F1	189	198.5		mg/Kg		104	75 - 125		
Molybdenum	5.20		189	197.8		mg/Kg		102	75 - 125		
Nickel	15.8	F2 F1	189	193.2		mg/Kg		94	75 - 125		
Selenium	1.00	F2 F1	189	172.7		mg/Kg		91	75 - 125		
Silver	ND	F2 F1	94.3	99.81		mg/Kg		106	75 - 125		
Thallium	0.848	F2 F1	189	178.9		mg/Kg		94	75 - 125		
Vanadium	75.5	F2 F1	189	266.3		mg/Kg		101	75 - 125		
Zinc	48.1	F2 F1	189	222.7		mg/Kg		93	75 - 125		

Lab Sample ID: 570-193109-5 MSD

Matrix: Solid

Analysis Batch: 468126

Client Sample ID: IM-1 (0-6")

Prep Type: Total/NA

Prep Batch: 467599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Antimony	1.13		189	169.5		mg/Kg		89	75 - 125	7	20
Arsenic	1.10	F2 F1	189	264.6	F1 F2	mg/Kg		140	75 - 125	37	20
Barium	198	F1	189	471.1	F1	mg/Kg		145	75 - 125	13	20
Beryllium	ND	F2 F1	189	284.8	F1 F2	mg/Kg		151	75 - 125	40	20
Cadmium	0.0813	J F2 F1	189	277.1	F1 F2	mg/Kg		147	75 - 125	38	20

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# QC Sample Results

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Method: 6020 - Metals (ICP/MS) (Continued)

Lab Sample ID: 570-193109-5 MSD

Matrix: Solid

Analysis Batch: 468126

Client Sample ID: IM-1 (0-6")

Prep Type: Total/NA

Prep Batch: 467599

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Chromium	27.5	F2 F1	189	292.7	F1 F2	mg/Kg		141	75 - 125	34	20
Cobalt	12.5	F2 F1	189	278.8	F1 F2	mg/Kg		141	75 - 125	37	20
Copper	22.8	F2 F1	189	285.4	F1 F2	mg/Kg		139	75 - 125	35	20
Lead	1.49	F2 F1	189	292.2	F1 F2	mg/Kg		154	75 - 125	38	20
Molybdenum	5.20		189	196.1		mg/Kg		101	75 - 125	1	20
Nickel	15.8	F2 F1	189	287.1	F1 F2	mg/Kg		144	75 - 125	39	20
Selenium	1.00	F2 F1	189	254.3	F1 F2	mg/Kg		134	75 - 125	38	20
Silver	ND	F2 F1	94.3	142.8	F1 F2	mg/Kg		151	75 - 125	35	20
Thallium	0.848	F2 F1	189	258.3	F1 F2	mg/Kg		136	75 - 125	36	20
Vanadium	75.5	F2 F1	189	338.1	F1 F2	mg/Kg		139	75 - 125	24	20
Zinc	48.1	F2 F1	189	293.9	F1 F2	mg/Kg		130	75 - 125	28	20

## Method: 7471A - Mercury (CVAA)

Lab Sample ID: MB 570-465395/1-A

Matrix: Solid

Analysis Batch: 465825

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 465395

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.0887	0.0234	mg/Kg		07/30/24 10:16	07/31/24 10:13	1

Lab Sample ID: LCS 570-465395/2-A

Matrix: Solid

Analysis Batch: 465825

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 465395

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec Limits
Mercury	0.408	0.3692		mg/Kg		90	80 - 120

Lab Sample ID: LCSD 570-465395/3-A

Matrix: Solid

Analysis Batch: 465825

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Prep Batch: 465395

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec Limits	RPD	RPD Limit
Mercury	0.400	0.3687		mg/Kg		92	80 - 120	0	10



QC Association Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

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GC/MS Semi VOA

Prep Batch: 466094

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	3546	466094
570-193109-6	IM-2 (0-6")	Total/NA	Solid	3546	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	3546	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	3546	
MB 570-466094/1-A	Method Blank	Total/NA	Solid	3546	466094
LCS 570-466094/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-466094/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Analysis Batch: 466727

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-466094/1-A	Method Blank	Total/NA	Solid	8270C	466094
LCS 570-466094/2-A	Lab Control Sample	Total/NA	Solid	8270C	
LCSD 570-466094/3-A	Lab Control Sample Dup	Total/NA	Solid	8270C	

Analysis Batch: 467213

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	8270C	466094
570-193109-6	IM-2 (0-6")	Total/NA	Solid	8270C	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	8270C	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	8270C	

GC VOA

Analysis Batch: 467420

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	8015B	467477
570-193109-6	IM-2 (0-6")	Total/NA	Solid	8015B	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	8015B	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	8015B	
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	8015B	467477
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	8015B	
MB 570-467477/3-A	Method Blank	Total/NA	Solid	8015B	
LCS 570-467477/1-A	Lab Control Sample	Total/NA	Solid	8015B	
LCSD 570-467477/2-A	Lab Control Sample Dup	Total/NA	Solid	8015B	467477
570-193109-9 MS	BB-1 (1-1.5")	Total/NA	Solid	8015B	
570-193109-9 MSD	BB-1 (1-1.5")	Total/NA	Solid	8015B	

Prep Batch: 467477

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	5030C	467477
570-193109-6	IM-2 (0-6")	Total/NA	Solid	5030C	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	5030C	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	5030C	
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	5030C	467477
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	5030C	
MB 570-467477/3-A	Method Blank	Total/NA	Solid	5030C	
LCS 570-467477/1-A	Lab Control Sample	Total/NA	Solid	5030C	
LCSD 570-467477/2-A	Lab Control Sample Dup	Total/NA	Solid	5030C	467477
570-193109-9 MS	BB-1 (1-1.5")	Total/NA	Solid	5030C	
570-193109-9 MSD	BB-1 (1-1.5")	Total/NA	Solid	5030C	



QC Association Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

GC Semi VOA

Prep Batch: 465949

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-1	AG-1 (SURF)	Total/NA	Solid	3546	Prep Batch
570-193109-2	AG-2 (SURF)	Total/NA	Solid	3546	
570-193109-3	AG-3 (SURF)	Total/NA	Solid	3546	
570-193109-4	AG-4 (SURF)	Total/NA	Solid	3546	
570-193109-5	IM-1 (0-6")	Total/NA	Solid	3546	
570-193109-6	IM-2 (0-6")	Total/NA	Solid	3546	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	3546	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	3546	
MB 570-465949/1-A	Method Blank	Total/NA	Solid	3546	Prep Batch
LCS 570-465949/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-465949/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 466360

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-15	AG-3 (SURF) DUP	Total/NA	Solid	3546	Prep Batch
MB 570-466360/1-A	Method Blank	Total/NA	Solid	3546	
LCS 570-466360/2-A	Lab Control Sample	Total/NA	Solid	3546	
LCSD 570-466360/3-A	Lab Control Sample Dup	Total/NA	Solid	3546	

Prep Batch: 466997

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	3550C	Prep Batch
570-193109-6	IM-2 (0-6")	Total/NA	Solid	3550C	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	3550C	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	3550C	
MB 570-466997/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-466997/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-466997/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 467146

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-466997/1-A	Method Blank	Total/NA	Solid	8015B	466997
LCS 570-466997/2-A	Lab Control Sample	Total/NA	Solid	8015B	466997
LCSD 570-466997/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	466997

Prep Batch: 467191

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	3550C	Prep Batch
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	3550C	
MB 570-467191/1-A	Method Blank	Total/NA	Solid	3550C	
LCS 570-467191/2-A	Lab Control Sample	Total/NA	Solid	3550C	
LCSD 570-467191/3-A	Lab Control Sample Dup	Total/NA	Solid	3550C	

Analysis Batch: 467681

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	8015B	467191
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	8015B	467191
MB 570-467191/1-A	Method Blank	Total/NA	Solid	8015B	467191
LCS 570-467191/2-A	Lab Control Sample	Total/NA	Solid	8015B	467191
LCSD 570-467191/3-A	Lab Control Sample Dup	Total/NA	Solid	8015B	467191

QC Association Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

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GC Semi VOA

Analysis Batch: 467732

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-466360/1-A	Method Blank	Total/NA	Solid	8081A	466360
LCS 570-466360/2-A	Lab Control Sample	Total/NA	Solid	8081A	466360
LCSD 570-466360/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	466360

Analysis Batch: 468136

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	8015B	466997
570-193109-6	IM-2 (0-6")	Total/NA	Solid	8015B	466997
570-193109-7	IM-3 (0-6")	Total/NA	Solid	8015B	466997
570-193109-8	IM-4 (0-6")	Total/NA	Solid	8015B	466997

Analysis Batch: 468193

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-15	AG-3 (SURF) DUP	Total/NA	Solid	8081A	466360

Analysis Batch: 469666

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-1	AG-1 (SURF)	Total/NA	Solid	8081A	465949
570-193109-2	AG-2 (SURF)	Total/NA	Solid	8081A	465949
570-193109-3	AG-3 (SURF)	Total/NA	Solid	8081A	465949
570-193109-4	AG-4 (SURF)	Total/NA	Solid	8081A	465949
570-193109-8	IM-4 (0-6")	Total/NA	Solid	8081A	465949
MB 570-465949/1-A	Method Blank	Total/NA	Solid	8081A	465949
LCS 570-465949/2-A	Lab Control Sample	Total/NA	Solid	8081A	465949
LCSD 570-465949/3-A	Lab Control Sample Dup	Total/NA	Solid	8081A	465949

Analysis Batch: 469703

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	8081A	465949
570-193109-6	IM-2 (0-6")	Total/NA	Solid	8081A	465949
570-193109-7	IM-3 (0-6")	Total/NA	Solid	8081A	465949

Metals

Prep Batch: 465395

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	7471A	465395
570-193109-6	IM-2 (0-6")	Total/NA	Solid	7471A	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	7471A	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	7471A	
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	7471A	465395
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	7471A	
MB 570-465395/1-A	Method Blank	Total/NA	Solid	7471A	
LCS 570-465395/2-A	Lab Control Sample	Total/NA	Solid	7471A	
LCSD 570-465395/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	465395

Prep Batch: 465803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-11	FB#1	Total Recoverable	Water	200.8	465803
570-193109-12	EB#1	Total Recoverable	Water	200.8	
MB 570-465803/1-A	Method Blank	Total Recoverable	Water	200.8	

# QC Association Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Metals (Continued)

### Prep Batch: 465803 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 570-465803/2-A	Lab Control Sample	Total Recoverable	Water	200.8	
LCSD 570-465803/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	

### Analysis Batch: 465825

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	7471A	465395
570-193109-6	IM-2 (0-6")	Total/NA	Solid	7471A	465395
570-193109-7	IM-3 (0-6")	Total/NA	Solid	7471A	465395
570-193109-8	IM-4 (0-6")	Total/NA	Solid	7471A	465395
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	7471A	465395
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	7471A	465395
MB 570-465395/1-A	Method Blank	Total/NA	Solid	7471A	465395
LCS 570-465395/2-A	Lab Control Sample	Total/NA	Solid	7471A	465395
LCSD 570-465395/3-A	Lab Control Sample Dup	Total/NA	Solid	7471A	465395

### Analysis Batch: 466520

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 570-465803/1-A	Method Blank	Total Recoverable	Water	200.8	465803
LCS 570-465803/2-A	Lab Control Sample	Total Recoverable	Water	200.8	465803
LCSD 570-465803/3-A	Lab Control Sample Dup	Total Recoverable	Water	200.8	465803

### Analysis Batch: 466527

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-11	FB#1	Total Recoverable	Water	200.8	465803
570-193109-12	EB#1	Total Recoverable	Water	200.8	465803

### Prep Batch: 466835

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-1	AG-1 (SURF)	Total/NA	Solid	3050B	
570-193109-2	AG-2 (SURF)	Total/NA	Solid	3050B	
570-193109-4	AG-4 (SURF)	Total/NA	Solid	3050B	
570-193109-13	AG-1 (SURF) DUP	Total/NA	Solid	3050B	
570-193109-14	AG-2 (SURF) DUP	Total/NA	Solid	3050B	
MB 570-466835/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 570-466835/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-466835/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Prep Batch: 467482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-3	AG-3 (SURF)	Total/NA	Solid	3050B	
MB 570-467482/1-A ^20	Method Blank	Total/NA	Solid	3050B	
LCS 570-467482/2-A ^20	Lab Control Sample	Total/NA	Solid	3050B	
LCSD 570-467482/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	3050B	

### Prep Batch: 467599

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-5	IM-1 (0-6")	Total/NA	Solid	3051A	
570-193109-6	IM-2 (0-6")	Total/NA	Solid	3051A	
570-193109-7	IM-3 (0-6")	Total/NA	Solid	3051A	
570-193109-8	IM-4 (0-6")	Total/NA	Solid	3051A	
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	3051A	

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# QC Association Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Metals (Continued)

### Prep Batch: 467599 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	3051A	
MB 570-467599/1-A ^5	Method Blank	Total/NA	Solid	3051A	
LCS 570-467599/2-A ^5	Lab Control Sample	Total/NA	Solid	3051A	
LCSD 570-467599/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	3051A	
570-193109-5 MS	IM-1 (0-6")	Total/NA	Solid	3051A	
570-193109-5 MSD	IM-1 (0-6")	Total/NA	Solid	3051A	

### Analysis Batch: 467617

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-1	AG-1 (SURF)	Total/NA	Solid	6020	466835
570-193109-2	AG-2 (SURF)	Total/NA	Solid	6020	466835
570-193109-4	AG-4 (SURF)	Total/NA	Solid	6020	466835
570-193109-13	AG-1 (SURF) DUP	Total/NA	Solid	6020	466835
570-193109-14	AG-2 (SURF) DUP	Total/NA	Solid	6020	466835
MB 570-466835/1-A ^20	Method Blank	Total/NA	Solid	6020	466835
LCS 570-466835/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	466835
LCSD 570-466835/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	6020	466835

### Analysis Batch: 468126

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
570-193109-3	AG-3 (SURF)	Total/NA	Solid	6020	467482
570-193109-5	IM-1 (0-6")	Total/NA	Solid	6020	467599
570-193109-6	IM-2 (0-6")	Total/NA	Solid	6020	467599
570-193109-7	IM-3 (0-6")	Total/NA	Solid	6020	467599
570-193109-8	IM-4 (0-6")	Total/NA	Solid	6020	467599
570-193109-9	BB-1 (1-1.5")	Total/NA	Solid	6020	467599
570-193109-10	BB-2 (1-1.5")	Total/NA	Solid	6020	467599
MB 570-467482/1-A ^20	Method Blank	Total/NA	Solid	6020	467482
MB 570-467599/1-A ^5	Method Blank	Total/NA	Solid	6020	467599
LCS 570-467482/2-A ^20	Lab Control Sample	Total/NA	Solid	6020	467482
LCS 570-467599/2-A ^5	Lab Control Sample	Total/NA	Solid	6020	467599
LCSD 570-467482/3-A ^20	Lab Control Sample Dup	Total/NA	Solid	6020	467482
LCSD 570-467599/3-A ^5	Lab Control Sample Dup	Total/NA	Solid	6020	467599
570-193109-5 MS	IM-1 (0-6")	Total/NA	Solid	6020	467599
570-193109-5 MSD	IM-1 (0-6")	Total/NA	Solid	6020	467599

# Lab Chronicle

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: AG-1 (SURF)**

**Lab Sample ID: 570-193109-1**

**Date Collected: 07/24/24 08:50**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.33 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469666	08/11/24 15:11	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3050B			1.95 g	50 mL	466835	08/04/24 12:00	U4XW	EET CAL 4
Total/NA	Analysis	6020		20			467617	08/05/24 13:21	P1R	EET CAL 4
Instrument ID: ICPMS10										

**Client Sample ID: AG-2 (SURF)**

**Lab Sample ID: 570-193109-2**

**Date Collected: 07/24/24 08:54**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.30 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469666	08/11/24 15:25	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3050B			1.98 g	50 mL	466835	08/04/24 12:00	U4XW	EET CAL 4
Total/NA	Analysis	6020		20			467617	08/05/24 13:42	P1R	EET CAL 4
Instrument ID: ICPMS10										

**Client Sample ID: AG-3 (SURF)**

**Lab Sample ID: 570-193109-3**

**Date Collected: 07/24/24 08:57**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.03 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469666	08/11/24 15:39	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3050B			2.02 g	50 mL	467482	08/05/24 10:42	RF8W	EET CAL 4
Total/NA	Analysis	6020		20			468126	08/06/24 17:23	P1R	EET CAL 4
Instrument ID: ICPMS10										

**Client Sample ID: AG-4 (SURF)**

**Lab Sample ID: 570-193109-4**

**Date Collected: 07/24/24 09:02**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.16 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469666	08/11/24 15:53	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3050B			1.97 g	50 mL	466835	08/04/24 12:00	U4XW	EET CAL 4
Total/NA	Analysis	6020		20			467617	08/05/24 13:47	P1R	EET CAL 4
Instrument ID: ICPMS10										

# Lab Chronicle

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: IM-1 (0-6")**

**Lab Sample ID: 570-193109-5**

**Date Collected: 07/24/24 09:40**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.30 g	2 mL	466094	07/31/24 18:33	S7HP	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	467213	08/04/24 04:48	CG	EET CAL 4
Instrument ID: GCMSCCC										
Total/NA	Prep	5030C			5.12 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 12:37	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.03 g	10 mL	466997	08/03/24 16:24	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	468136	08/07/24 00:56	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3546			20.23 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469703	08/12/24 12:42	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3051A			0.52 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 17:35	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.48 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:40	ECX6	EET CAL 4
Instrument ID: HG7										

**Client Sample ID: IM-2 (0-6")**

**Lab Sample ID: 570-193109-6**

**Date Collected: 07/24/24 09:32**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	2 mL	466094	07/31/24 18:33	S7HP	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	467213	08/04/24 05:11	CG	EET CAL 4
Instrument ID: GCMSCCC										
Total/NA	Prep	5030C			5.13 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 12:56	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.09 g	10 mL	466997	08/03/24 16:24	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	468136	08/07/24 01:21	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3546			20.17 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469703	08/12/24 12:56	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3051A			0.47 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 17:46	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.47 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:41	ECX6	EET CAL 4
Instrument ID: HG7										

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# Lab Chronicle

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: IM-3 (0-6")**

**Lab Sample ID: 570-193109-7**

**Date Collected: 07/24/24 09:16**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.11 g	2 mL	466094	07/31/24 18:33	S7HP	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	467213	08/04/24 05:33	CG	EET CAL 4
Instrument ID: GCMSCCC										
Total/NA	Prep	5030C			5.15 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 13:16	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.06 g	10 mL	466997	08/03/24 16:24	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	468136	08/07/24 01:46	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3546			20.03 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469703	08/12/24 13:10	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3051A			0.52 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 17:48	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.47 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:43	ECX6	EET CAL 4
Instrument ID: HG7										

**Client Sample ID: IM-4 (0-6")**

**Lab Sample ID: 570-193109-8**

**Date Collected: 07/24/24 09:10**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.23 g	2 mL	466094	07/31/24 18:33	S7HP	EET CAL 4
Total/NA	Analysis	8270C		1	1 mL	1 mL	467213	08/04/24 05:56	CG	EET CAL 4
Instrument ID: GCMSCCC										
Total/NA	Prep	5030C			5.15 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 13:36	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.00 g	10 mL	466997	08/03/24 16:24	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	468136	08/07/24 02:11	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3546			20.03 g	10 mL	465949	07/31/24 12:04	S7HP	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	469666	08/11/24 21:46	N5Y3	EET CAL 4
Instrument ID: GC52A										
Total/NA	Prep	3051A			0.51 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 17:56	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.48 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:49	ECX6	EET CAL 4
Instrument ID: HG7										

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# Lab Chronicle

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: BB-1 (1-1.5")**

**Lab Sample ID: 570-193109-9**

**Date Collected: 07/24/24 09:57**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.14 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 13:55	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.01 g	10 mL	467191	08/03/24 16:35	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	467681	08/06/24 07:15	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3051A			0.53 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 17:58	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.51 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:51	ECX6	EET CAL 4
Instrument ID: HG7										

**Client Sample ID: BB-2 (1-1.5")**

**Lab Sample ID: 570-193109-10**

**Date Collected: 07/24/24 10:07**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	5030C			5.00 g	5 mL	467477	08/05/24 10:39	A9VE	EET CAL 4
Total/NA	Analysis	8015B		1	5 g	5 mL	467420	08/05/24 14:14	A9VE	EET CAL 4
Instrument ID: GC73										
Total/NA	Prep	3550C			10.07 g	10 mL	467191	08/03/24 16:35	NV8K	EET CAL 4
Total/NA	Analysis	8015B		1	10 mL	10 mL	467681	08/06/24 07:40	SP9M	EET CAL 4
Instrument ID: GC100										
Total/NA	Prep	3051A			0.53 g	50 mL	467599	08/05/24 13:55	RF8W	EET CAL 4
Total/NA	Analysis	6020		5			468126	08/06/24 18:00	P1R	EET CAL 4
Instrument ID: ICPMS10										
Total/NA	Prep	7471A			0.500 g	50 mL	465395	07/30/24 10:16	RL6Q	EET CAL 4
Total/NA	Analysis	7471A		1			465825	07/31/24 10:53	ECX6	EET CAL 4
Instrument ID: HG7										

**Client Sample ID: FB#1**

**Lab Sample ID: 570-193109-11**

**Date Collected: 07/24/24 10:15**

**Matrix: Water**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	465803	07/31/24 07:16	JP8N	EET CAL 4
Total Recoverable	Analysis	200.8		1			466527	08/01/24 14:15	P1R	EET CAL 4
Instrument ID: ICPMS09										



# Lab Chronicle

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

**Client Sample ID: EB#1**

**Lab Sample ID: 570-193109-12**

**Date Collected: 07/24/24 10:20**

**Matrix: Water**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total Recoverable	Prep	200.8			50 mL	50 mL	465803	07/31/24 07:16	JP8N	EET CAL 4
Total Recoverable	Analysis	200.8		1			466527	08/01/24 14:18	P1R	EET CAL 4
Instrument ID: ICPMS09										

**Client Sample ID: AG-1 (SURF) DUP**

**Lab Sample ID: 570-193109-13**

**Date Collected: 07/24/24 08:50**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			1.97 g	50 mL	466835	08/04/24 12:00	U4XW	EET CAL 4
Total/NA	Analysis	6020		20			467617	08/05/24 13:23	P1R	EET CAL 4
Instrument ID: ICPMS10										

**Client Sample ID: AG-2 (SURF) DUP**

**Lab Sample ID: 570-193109-14**

**Date Collected: 07/24/24 08:54**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3050B			2.04 g	50 mL	466835	08/04/24 12:00	U4XW	EET CAL 4
Total/NA	Analysis	6020		20			467617	08/05/24 13:45	P1R	EET CAL 4
Instrument ID: ICPMS10										

**Client Sample ID: AG-3 (SURF) DUP**

**Lab Sample ID: 570-193109-15**

**Date Collected: 07/24/24 08:57**

**Matrix: Solid**

**Date Received: 07/26/24 09:40**

Prep Type	Batch Type	Batch Method	Run	Dil Factor	Initial Amount	Final Amount	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3546			20.14 g	10 mL	466360	08/01/24 12:35	UGM4	EET CAL 4
Total/NA	Analysis	8081A		1	1 mL	1 mL	468193	08/07/24 14:11	N5Y3	EET CAL 4
Instrument ID: GC54A										

## Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Accreditation/Certification Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

## Laboratory: Eurofins Calscience

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

Authority	Program	Identification Number	Expiration Date
California	State	3082	07-31-26
The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.			
Analysis Method	Prep Method	Matrix	Analyte
200.8	200.8	Water	Arsenic
200.8	200.8	Water	Lead
8081A	3546	Solid	alpha-Chlordane
8081A	3546	Solid	gamma-Chlordane
8270C	3546	Solid	1,2,4-Trichlorobenzene
8270C	3546	Solid	1-Methylnaphthalene
8270C	3546	Solid	2,4,5-Trichlorophenol
8270C	3546	Solid	2,4,6-Trichlorophenol
8270C	3546	Solid	2-Methylphenol
8270C	3546	Solid	3/4-Methylphenol
8270C	3546	Solid	4,6-Dinitro-2-methylphenol
8270C	3546	Solid	Azobenzene
8270C	3546	Solid	bis (2-Chloroisopropyl) ether
8270C	3546	Solid	Hexachloro-1,3-butadiene
8270C	3546	Solid	Hexachlorobenzene
8270C	3546	Solid	Hexachlorocyclopentadiene
8270C	3546	Solid	Hexachloroethane
8270C	3546	Solid	Phenol
8270C	3546	Solid	Pyrene
8270C	3546	Solid	Pyridine
Oregon	NELAP	4175	02-02-25

# Method Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Method	Method Description	Protocol	Laboratory
8270C	Semivolatile Organic Compounds (GC/MS)	SW846	EET CAL 4
8015B	Gasoline Range Organics - (GC)	SW846	EET CAL 4
8015B	Diesel Range Organics (DRO) (GC)	SW846	EET CAL 4
8081A	Organochlorine Pesticides (GC)	SW846	EET CAL 4
200.8	Metals (ICP/MS)	EPA	EET CAL 4
6020	Metals (ICP/MS)	SW846	EET CAL 4
7471A	Mercury (CVAA)	SW846	EET CAL 4
200.8	Preparation, Total Recoverable Metals	EPA	EET CAL 4
3050B	Preparation, Metals	SW846	EET CAL 4
3051A	Preparation, Metals, Microwave Assisted	SW846	EET CAL 4
3546	Microwave Extraction	SW846	EET CAL 4
3550C	Ultrasonic Extraction	SW846	EET CAL 4
5030C	Purge and Trap	SW846	EET CAL 4
7471A	Preparation, Mercury	SW846	EET CAL 4

## Protocol References:

EPA = US Environmental Protection Agency

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

## Laboratory References:

EET CAL 4 = Eurofins Calscience Tustin, 2841 Dow Avenue, Tustin, CA 92780, TEL (714)895-5494

# Sample Summary

Client: Padre Associates, Inc.  
Project/Site: Hope Elementary School, Porterville, CA

Job ID: 570-193109-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
570-193109-1	AG-1 (SURF)	Solid	07/24/24 08:50	07/26/24 09:40
570-193109-2	AG-2 (SURF)	Solid	07/24/24 08:54	07/26/24 09:40
570-193109-3	AG-3 (SURF)	Solid	07/24/24 08:57	07/26/24 09:40
570-193109-4	AG-4 (SURF)	Solid	07/24/24 09:02	07/26/24 09:40
570-193109-5	IM-1 (0-6")	Solid	07/24/24 09:40	07/26/24 09:40
570-193109-6	IM-2 (0-6")	Solid	07/24/24 09:32	07/26/24 09:40
570-193109-7	IM-3 (0-6")	Solid	07/24/24 09:16	07/26/24 09:40
570-193109-8	IM-4 (0-6")	Solid	07/24/24 09:10	07/26/24 09:40
570-193109-9	BB-1 (1-1.5")	Solid	07/24/24 09:57	07/26/24 09:40
570-193109-10	BB-2 (1-1.5")	Solid	07/24/24 10:07	07/26/24 09:40
570-193109-11	FB#1	Water	07/24/24 10:15	07/26/24 09:40
570-193109-12	EB#1	Water	07/24/24 10:20	07/26/24 09:40
570-193109-13	AG-1 (SURF) DUP	Solid	07/24/24 08:50	07/26/24 09:40
570-193109-14	AG-2 (SURF) DUP	Solid	07/24/24 08:54	07/26/24 09:40
570-193109-15	AG-3 (SURF) DUP	Solid	07/24/24 08:57	07/26/24 09:40







Environment Testing  
Calscience

2841 Dow Avenue, Suite 100, Tustin, CA 92780 • (714) 895-5494

For courier service / sample drop off information, contact us [sales@eurofinsus.com](mailto:sales@eurofinsus.com) or call us.

PBM11408 Rev. 1.2

## CHAIN-OF-CUSTODY RECORD

DATE: 07/25/2024

PAGE: 2 OF 2

193100

[illegible]

ORIGIN ID:BLUA  
TEST AMERICA  
EUROFINS TESTAMERICA W SACRAMENTO  
880 RIVERSIDE PARKWAY

WEST SACRAMENTO, CA 95605  
UNITED STATES US

SHIP DATE: 23 JUL 24  
ACTWGT: 32.20 LB  
CAD: 852262/CAFE3808

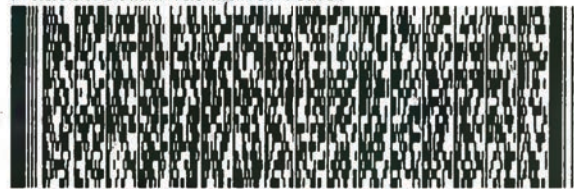
BILL SENDER

Part # 159470-131 MTW EXP 11/24

TO **EUROFINS ENV. TESTING SOUTHWEST**  
**SAMPLE RECEIVING**  
**2841 DOW AVE**  
**SUITE 100**  
**TUSTIN CA 92780**

(949) 261-1022

REF: SEND OUTS



**FedEx**  
Express



TRK# 7458 0674 1357  
0201

**FRI - 26 JUL 10:30A**  
**PRIORITY OVERNIGHT**

**92 DTHA**

**92780**  
**CA-US SNA**



570-193109 Waybill

## Login Sample Receipt Checklist

Client: Padre Associates, Inc.

Job Number: 570-193109-1

Login Number: 193109

List Number: 1

Creator: Patel, Jayesh

List Source: Eurofins Calscience

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





# EMSL Analytical, Inc.

464 McCormick Street San Leandro, CA 94577

Phone/Fax: (510) 895-3675 / (510) 895-3680

<http://www.EMSL.com> / [sanleandrolab@emsl.com](mailto:sanleandrolab@emsl.com)

EMSL Order: 092413956

Customer ID: PADR42

Customer PO: 2301-3641

Project ID:

Attention: Padre Associates, Inc.  
1861 Knoll Drive  
Ventura, CA 93003

Phone: (805) 786-2650  
Fax:  
Received: 07/26/2024 10:45 AM  
Analysis Date: 08/09/2024  
Collected:

Project: 2301-3641 - HOPE ELEMENTARY SCHOOL

## Test Report: Asbestos Analysis of Soils via AHERA Method 40CFR 763 Subpart E Appendix E supplemented with EPA 600/R-93/116 using Polarized Light Microscopy with CARB 435 Prep (Milling) Level A for 0.25% Target Analytical Sensitivity

Sample	Description	Appearance	Non-Asbestos		Asbestos
			% Fibrous	% Non-Fibrous	% Type
IM-1 (0 - 6") 092413956-0001	IM-1 (0 - 6") / 7-24-24 (0944) - GRAB SOIL SAMPLE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
IM-2 (0 - 6") 092413956-0002	IM-2 (0 - 6") 7-24-24 (0933) - GRAB SOIL SAMPLE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
IM-3 (0 - 6") 092413956-0003	IM-3 (0 - 6") 7-24-24 (0916) - GRAB SOIL SAMPLE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected
IM-4 (0 - 6") 092413956-0004	IM-4 (0 - 6") 7-24-24 (0910) - GRAB SOIL SAMPLE	Tan Non-Fibrous Homogeneous		100% Non-fibrous (Other)	None Detected

Analyst(s)

David Nguyen (4)

Oscar Merino, Laboratory Manager  
or other approved signatory

EMSL maintains liability limited to cost of analysis. Interpretation and use of test results are the responsibility of the client. This report relates only to the samples reported above, and may not be reproduced, except in full, without written approval by EMSL. EMSL bears no responsibility for sample collection activities or analytical method limitations. The report reflects the samples as received. Results are generated from the field sampling data (sampling volumes and areas, locations, etc.) provided by the client on the Chain of Custody. Samples are within quality control criteria and met method specifications unless otherwise noted. Some samples may contain asbestos fibers present in dimensions below PLM resolution limits. EMSL suggests that samples reported as <0.25% or none detected undergo additional analysis via TEM.

Samples analyzed by EMSL Analytical, Inc San Leandro, CA

Initial report from: 08/09/2024 10:28:06



**EMSL Analytical, Inc.**  
464 McCormick Street, San Leandro, CA 94577  
Phone: (510) 895-3675  
Fax: (510) 895-3680  
Email: SanLeandroLab@emsl.com

EMSL Order: 092413956  
Customer ID: PADR42  
Customer PO: 2301-3641  
Project ID:

**Attn:**

*Padre Associates, Inc.*  
1861 Knoll Drive  
Ventura, CA, 93003

**Phone:** (805) 786-2650  
**Fax:** N/A  
**Collected:** N/A  
**Received:** 07/26/24 10:45

**Project:** 2301-3641 - HOPE ELEMENTARY SCHOOL

**Analyzed:** 08/15/24

**SUMMARY REPORT : Modified TEM CARB 435 Level: C ( 0.01%)**  
**Analysis of Soil Material Utilizing Analytical Electron Microscopy (Section 2.5.5.2) with CARB 435 Prep (Milling)**

Sample ID	Minerals Present	Results	Structures	Reporting Limit	Asbestos Weight	Comments
IM-2 (0 - 6")	Undetermined, Chrysotile	Regulated Asbestos	1	0.01%	< 0.01%	
092413956-0002		Other Minerals	0		< 0.01%	
IM-2 (0 - 6") 7-24-24 (0933) - GRAB SOIL SAMPLE		Total	1		< 0.01%	
		Undetermined	14			

**J. Dang**  
Analyst

*J. Dang*

Approved Signatory

EMSL maintains liability limited to cost of analysis. This report relies only to the samples reported above and may not be reproduced, except in full, without written approval by EMSL. EMSL is not responsible for sample collection activities or analytical method limitations. Interpretation and use of results are the responsibility of the client. Regulated asbestos includes the 6 Federally regulated types: chrysotile, amosite, crocidolite, actinolite, tremolite, and anthophyllite. Other minerals can include Libby Amphibole, Erionite, and other non-regulated minerals. A countable structure for this report would have substantially parallel sides, a length greater than or equal to 0.5 microns and meet the aspect ratio defined above. The reported mass percent may be statistically unreliable when the mass percent of the largest structure is high. Contact the laboratory for additional analytical options.

TEM CARB Spreadsheet Version: 11.0

This is the Last Page of the Report

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Page 1 of 1

**APPENDIX E**  
**ARSENIC BACKGROUND DATA SET**

**SOILS ENGINEERING, INC.**



**PRELIMINARY ENVIRONMENTAL ASSESSMENT REPORT**

**PROPOSED ELEMENTARY SCHOOL  
NW CORNER OF E. MORTON AVE. & HILLCREST ST.  
PORTERVILLE, CALIFORNIA**

**Prepared For:**

**Porterville Unified School District  
600 West Grand Ave.  
Porterville, CA 93257  
Attn: Owen Fish**

**File No. 05-11560**

**Prepared By:**

**Soils Engineering, Inc.  
4400 Yeager Way  
Bakersfield, CA. 93313**

**June 2006**

TABLE 2 Left Side

**TABLE**  
**Soil Sample Analytical Results For**  
**Porterville Unified**  
**NW Corner of E. Morton Ave. and**

CONSTITUENTS (EPA Method)		DISCRETE SOIL SAMPLES (0 to 6" d																			
CAM-Metals (4010/7471)	PQL (ppm)	C1A-3"	C1B-3"	C2A-3"	C2B-3"	C3B-3"	C4B-3"	C5B-3"	C6B-3"	C9B-3" (Dup. Of C6-3")	C7B-3"	C8B-3"	D1-3"	D2-3"	D3-3"	D4-3"	D5-3"	D6-3"	D7-3"	D8-3"	D9-3"
Antimony	10	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Arsenic	1	NA	3.79	NA	2.99	3.00	3.19	1.02	2.35	2.10	1.45	3.41	NA	NA	NA	NA	NA	NA	NA	NA	NA
Barium	1	NA	351	NA	NA	213	NA	72.2	NA	NA	138	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Beryllium	1	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cadmium	1	NA	1.37	NA	NA	1.30	NA	ND	NA	NA	1.08	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Chromium	1	NA	55.6	NA	NA	68.6	NA	34.5	NA	NA	66.3	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Cobalt	1	NA	16.2	NA	NA	14.0	NA	6.71	NA	NA	12.4	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Copper	1	NA	19.8	NA	NA	21.5	NA	11.6	NA	NA	27.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Lead	1	NA	9.87	NA	NA	9.06	NA	3.76	NA	NA	10.7	NA	11	8.69	11.9	7.31	10.7	8.35	6.28	12.8	8.34
Mercury	0.1	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Molybdenum	5	NA	2.42	NA	NA	2.29	NA	1.61	NA	NA	2.04	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Nickel	2	NA	76.0	NA	NA	104	NA	44.5	NA	NA	93.8	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Selenium	1	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Silver	1	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Thallium	1	NA	ND	NA	NA	ND	NA	ND	NA	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Vanadium	1	NA	53.9	NA	NA	45.9	NA	21.0	NA	NA	34.6	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Zinc	5	NA	52.3	NA	NA	65.9	NA	29.9	NA	NA	78.1	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Asbestos PLM	0.25%	ND	NA	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	NA	NA	NA	ND	NA	NA
Asbestos TEM	0.0001%	0.0002%	NA	0.0008%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	0.0021%	NA	NA	NA	0.0007%	NA	NA

Note: Results in ppm unless otherwise noted, ppm = parts per million (mg/kg), ND = None Detected, NA = Not Analyzed, PQL = Practical Quantitation Limit for Reporting, ppb = parts per billion, PLM=Polarized Light Microscopy, TEM=Transmission Electron Microscopy

TABLE 2 Right Side

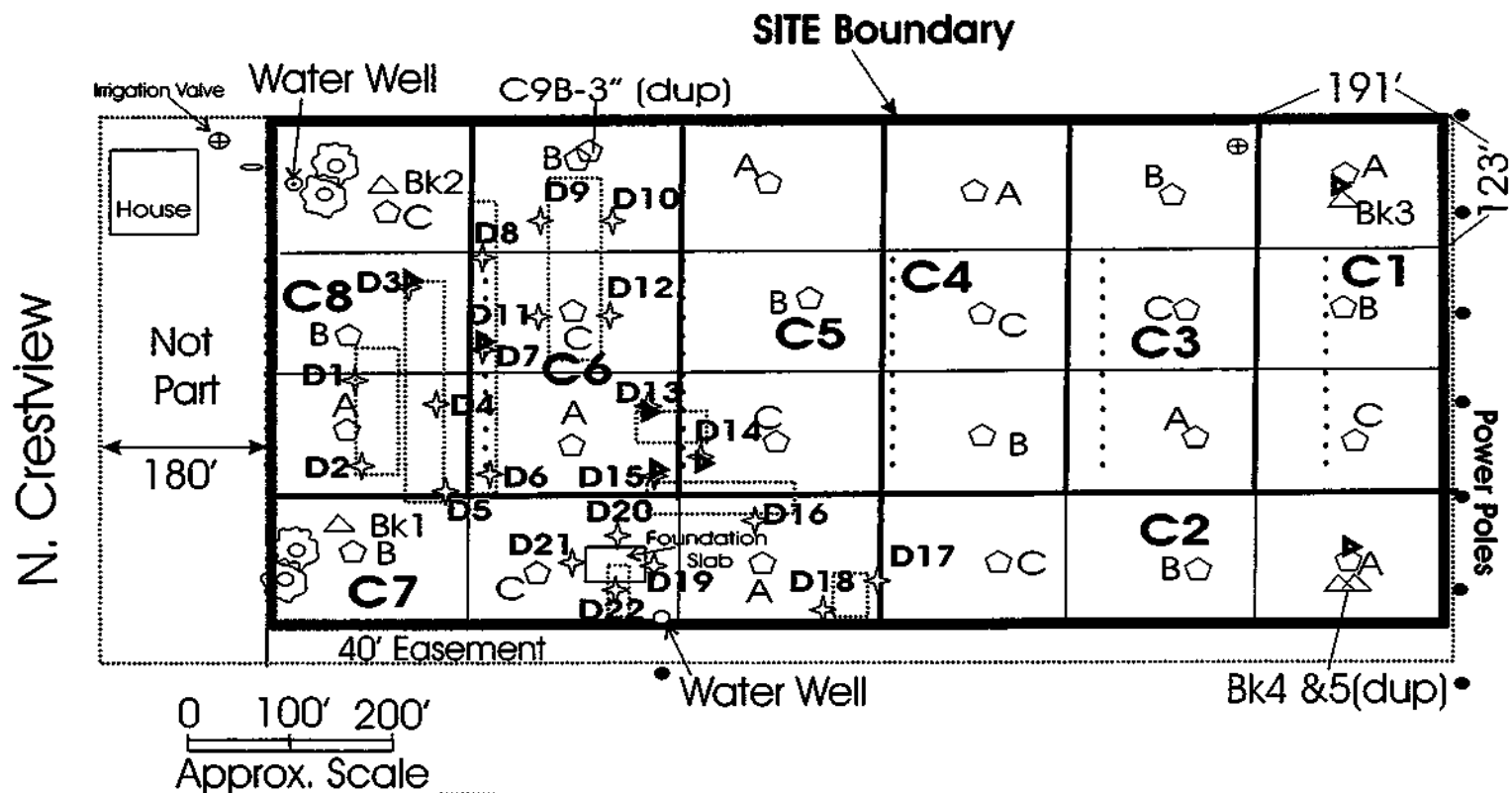
TABLE 2

For CAM-17 Metals and Asbestos  
 Unified School District  
 and N. Hillcrest St., Porterville, CA

														Background On-Site @ 5'					COMPARISON OF ON-SITE & BACKGROUND METAL CONCENTRATIONS		
to 6" depth)														BK1-5'	BK2-5'	BK3-5'	BK4-5'	BK5-5' (Dup. Of BK4 5')	On-Site Mean Concentration	0 to 6" Back-ground Concentration Range	Metal Eliminated As Chemical Of Concern?
D8-3"	D10-3"	D11-3"	D12-3"	D13-3"	D14-3"	D15-3"	D16-3"	D17-3"	D18-3"	D19-3"	D20-3"	D21-3"	D22-3"								
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<10	<10	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.34	4.04	3.61	3.49	3.95	2.59	2.34 to 4.04	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	107	159	238	293	365	193.65	107 to 293	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<1.0	<1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	1.17	2.14	1.82	1.82	1.72	1.20	1.17 to 2.14	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	113	233	68.9	61.6	66.7	58.25	61.6 to 233	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	13.8	23.1	14.2	13.9	14.1	12.33	13.8 to 23.1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	19.8	43.4	21.1	21.9	24.6	20.18	21.1 to 43.4	Yes
8.34	12.0	9.11	9.43	3.88	5.89	3.74	4.84	10.1	10.1	6.38	9.50	7.12	7.65	5.39	15.7	8.33	8.07	8.36	8.40	5.39 to 15.7	See Table 6
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<0.1	<0.1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	2.75	4.01	2.55	2.05	2.77	2.14	2.05 to 4.01	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	127	163	91.4	76.9	83.1	79.58	76.9 to 163	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<1	<1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<1	<1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	ND	ND	ND	ND	ND	<1	<1	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49.2	88	60.2	54.5	57.4	38.90	49.2 to 88	Yes
NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	40.7	117	57.6	51.2	59.4	56.55	40.7 to 117	Yes
NA	NA	NA	NA	ND	ND	ND	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			
NA	NA	NA	NA	0.0021%	0.0008%	0.0022%	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA			

ppb = parts per billion. Metal eliminated as chemical of concern if on-site mean is within background range, Bold = Elevated

ppb = parts per billion. Metal eliminated as chemical of concern if on-site mean is within background range, Bold = Elevated



### Sample Legend

- C** Soil Sample Samples for Composites (0 to 6" & 2' to 2.5') 8081A (1/2-acre centers)  
4 of -B Samples For Arsenic, (C2B-3", C4B-3", C6-3", C8B-3", & C9B-3")  
4 of -B Samples for Cam 17 Metals (C1B-3", C3B-3", C5-3" & C7B-3")
- D** Discrete Soil Sample (0-6", 2' to 2.5') Total Lead (D1 to D22)
- △** Background Discrete Soil Sample (5' bgs.) CAM 17 metals

**▶** Pit For Asbestos Sampling 0 to 6" & 3' (D3, D7, D13, D14, D15, C2A & C1A)

SOILS ENGINEERING, INC.

4400 Yeager Way

Bakersfield, CA 93313

(661) 831 - 5100

DATE: 05/06

PROJECT: 11560

Porterville Unified School District

NW Corner of East Morton Ave. & Hillcrest St.

Porterville, CA

## SAMPLING MAP

3

PLATE

**APPENDIX F**  
**LEADSPREAD RISK ASSESSMENT SPREADSHEET**



LeadSpread 9- LEAD RISK ASSESSMENT SPREADSHEET  
CALIFORNIA DEPARTMENT OF TOXIC SUBSTANCES CONTROL

USERS GUIDE to Leadsread Version 9

INPUT	
MEDIUM	LEVEL
Lead in Soil/Dust (µg/g)	9
Respirable Dust (µg/cubic m)	1.5

EXPOSURE PARAMETERS			
Parameter	units	adults	children
Days per week	days/wk	7	
Days per week, occupational	-	5	
Geometric Standard Deviation	-	1.6	
Blood lead level of concern	(µg/dl)	1.1	1
Skin area, residential	square cm	6032	2373
Skin area occupational	square cm	6032	
Soil adherence	µg/square cm	70	200
Dermal uptake constant	(µg/dl)/(µg/day)	0.00027	0.00048
Soil ingestion	mg/day	30	80
Soil ingestion, pica	mg/day		1000
Ingestion constant	(µg/dl)/(µg/day)	0.09	0.16
Bioavailability	unitless	0.6	
Breathing rate	cubic meter/day	20	10
Inhalation constant	(µg/dl)/(µg/day)	0.082	0.192

[Click here for REFERENCES](#)

OUTPUT					
ENDPOINT and RECEPTOR	50th Percentile Change in Blood Pb (µg/dl)	90th Percentile Change in Blood Pb (µg/dl)	95th Percentile Change in Blood Pb (µg/dl)	PRG-90 (µg/g)	PRG-95 (µg/g)
BLOOD Pb, ADULT	0.0	0.0	0.0	356	301
BLOOD Pb, CHILD	0.1	0.1	0.2	70	59
BLOOD Pb, PICA CHILD	0.9	1.6	1.9	6	5
BLOOD Pb, OCCUPATIONAL	0.0	0.0	0.0	499	421

PATHWAYS						
ADULTS	Residential Pathway Contribution	Residential Pathway Contribution	Residential Pathway Contribution	Occupational Pathway contribution	Occupational Pathway contribution	Occupational Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	6.8E-5	0.00	4%	4.9E-5	0.00	4%
Soil Ingestion	1.6E-3	0.01	96%	1.2E-3	0.01	96%
Inhalation	2.5E-6	0.00	0.1%	1.8E-6	0.00	0.1%

CHILDREN	Typical Pathway contribution	Typical Pathway contribution	Typical Pathway contribution	with pica Pathway contribution	with pica Pathway contribution	with pica Pathway contribution
Pathway	PEF*	µg/dl	percent	PEF	µg/dl	percent
Soil Contact	1.4E-4	0.00	1.7%		0.00	0.1%
Soil Ingestion	7.7E-3	0.07	98%	9.6E-2	0.86	100%
Inhalation	2.9E-6	0.00	0.0%		0.00	0.0%

[Click here for Equations](#)

\*Pathway Exposure Factor