



PRELIMINARY ENVIRONMENTAL ASSESSMENT

**LOWREY / RANCH (EAST) SCHOOL SITE
VISALIA, TULARE COUNTY, CALIFORNIA
(SITE CODE: 104904 AND ENVIROSTOR NUMBER 60003861)**



Prepared for:

Visalia Unified School District

AUGUST 2025

August 25, 2025

Project Number: 2401-4671

Elizabeth 'Liz' Tisdale, Project Manager
California Department of Toxic Substances Control
Northern California Schools Unit
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Sacramento, California 95826-3200

Subject: Preliminary Environmental Assessment Report
Lowrey / Ranch (East) School Site
(Site Code: 104904)

Dear Ms. Tisdale:

Padre Associates (Padre), on behalf of Visalia Unified School District, has prepared this Preliminary Environmental Assessment (PEA) Report for the Lowrey / Ranch (East) School Site located approximately 2,000 feet southeast of the intersection of Avenue 320 and North Akers Street in Visalia, 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, Lowrey / Ranch (East) School Site, Visalia, Tulare County, California, (Padre, June 2025)*.

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

A handwritten signature in blue ink, appearing to read "Alan Churchill".

Alan Churchill, P.G.
Senior Geologist

A handwritten signature in blue ink, appearing to read "Alan J. Klein".

Alan J. Klein, C.P.E.S.C., QSD
Associate Senior Environmental Scientist

CC: Steven Pena, Director Facilities, Visalia Unified School District
John Dominguez, President, School Site Solutions, Inc.

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EXECUTIVE SUMMARY

Padre Associates, on behalf of Visalia Unified School District, has prepared this Preliminary Environmental Assessment (PEA) report for the Lowrey / Ranch (East) School Site located approximately 2,000 feet southeast of the intersection of North Akers Street and Avenue 320 in Visalia, Tulare County, California (Project Site).

The District plans to acquire the Project Site for the construction of a new school that will accommodate approximately 747 students with 30 classrooms. The anticipated opening date has not been determined. Municipal water will be provided by California Water Service and sewer services will be provided by the City of Visalia – Public Works Department.

The PEA was conducted in accordance with the document titled: *Preliminary Environmental Assessment Workplan, Lowrey / Ranch (East) School Site, Visalia, Tulare County, California, Site Code: 104904, (Padre, June 2025)*. The California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) approved the PEA workplan in a letter dated July 3, 2025.

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, metals, and petroleum hydrocarbons from the presence of former outbuildings and equipment storage at the southeast portion of the Project Site; and OCPs, metals, and petroleum hydrocarbons from the presence of a topographic depression at the southwest corner of the Project Site observed on the 1927 topographic map which is not present on the 1949 topographic map.

The total estimated risk from COPC identified in soils is estimated to be 3.1×10^{-9} , which does not provide an increased cancer risk of greater than 1 in 1,000,000 ($>10^{-6}$). The total health hazard from COPC identified in soils is estimated to be 0.26 which does not present an increased health hazard (i.e., >1). Therefore, further assessment and/or mitigation of COPC in soil is not warranted.

The arsenic data set for the Project Site consisted of 21 soil samples, which ranged in concentrations from 3.1 mg/kg to 15 mg/kg. The arsenic background data set consisted of 13 soil samples, which ranged in concentrations from 2.9 to 9.6 mg/kg. The 95% upper confidence level (UCL) for arsenic in soil was calculated to be 6.5 mg/kg, which is below the highest arsenic background concentration of 9.6 mg/kg. Therefore, arsenic concentrations identified at the Project Site are considered comparable to background concentrations and further assessment or remedial action for arsenic in soil is not warranted.

Lead concentrations in soil ranged from 4.3 to 7.5 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 micrograms per decaliter (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.

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 Lowrey / Ranch (East) School Site.

1.0 INTRODUCTION

Padre Associates (Padre), on behalf of Visalia Unified School District (District), has prepared this Preliminary Environmental Assessment (PEA) report for the Lowrey / Ranch (East) School Site located approximately 2,000 feet southeast of the intersection of North Akers Street and Avenue 320 in Visalia, 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 acquire the Project Site for the construction of a new school that will accommodate approximately 747 students with 30 classrooms. The anticipated opening date has not been determined. Municipal water will be provided by California Water Service and sewer services will be provided by the City of Visalia – Public Works Department.

The PEA was conducted in accordance with the document titled: *Preliminary Environmental Assessment Workplan, Lowrey / Ranch (East) School Site, Visalia, Tulare County, California, Site Code: 104904, (Padre, June 2025)*. The California Environmental Protection Agency (CalEPA) Department of Toxic Substances Control (DTSC) approved the PEA workplan in a letter dated July 3, 2025. 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:

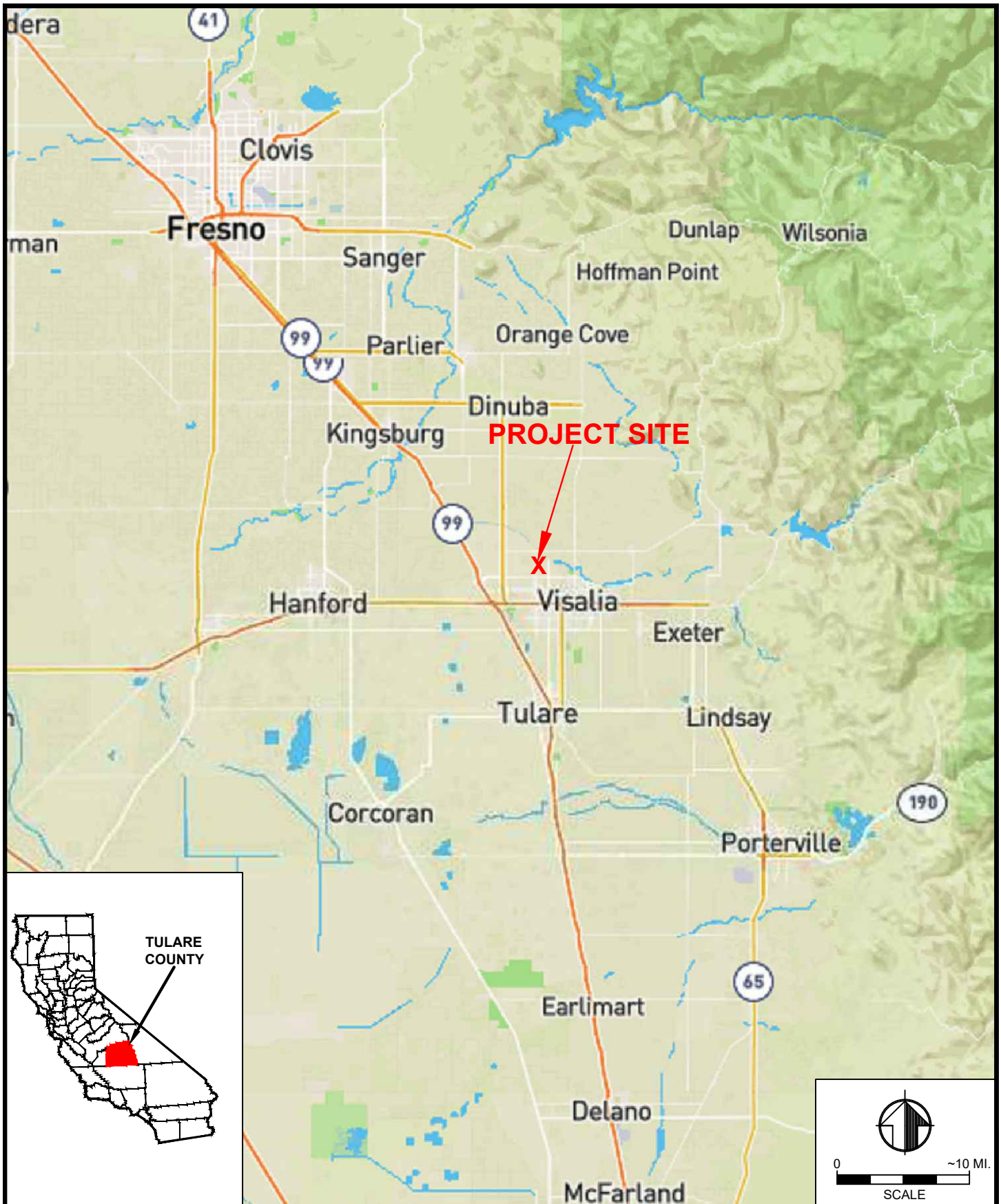
- Evaluating historical information for indications of past use, storage, disposal, and/or release of hazardous substances at the Project Site;
- Establishing through a field sampling and laboratory analysis program, the nature, concentration, and general extent of hazardous substances that may be present 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.

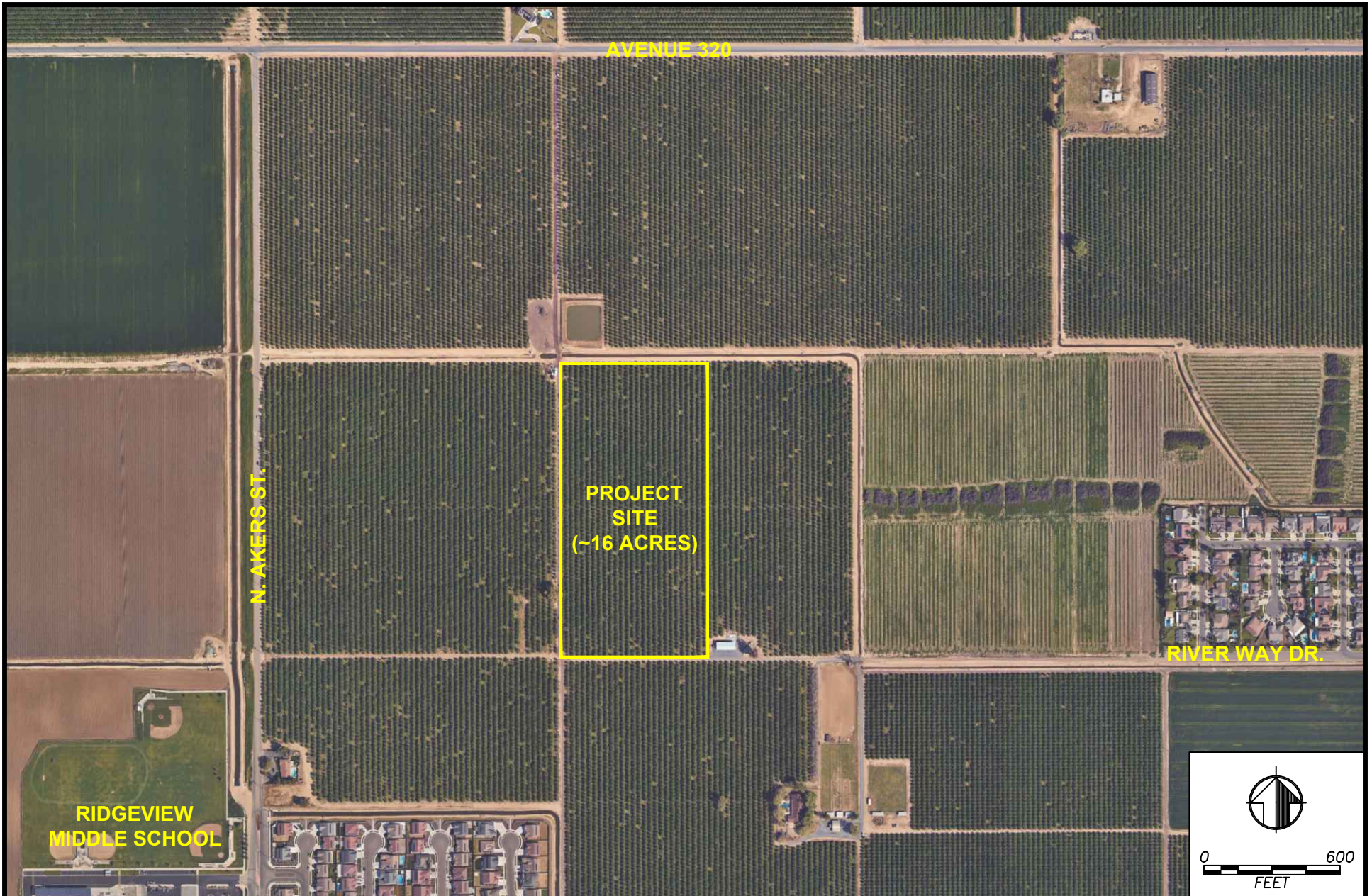
Based on information developed during the course of the PEA and the conservative human and ecological risk evaluation using the DTSC's *PEA Guidance Manual*, January 1994, (Revised October 2015), DTSC will then make an informed decision regarding potential risks posed by the Project Site.

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	GOOGLE EARTH IMAGERY (3/24)	LOWREY / RANCH (EAST) VISALIA UNIFIED SCHOOL DISTRICT VISALIA, CALIFORNIA				PLATE 1-2 SITE MAP
		PROJECT NO. 2401-4671	DATE 7/25/25	DR. BY AC	APP. BY AJK	

2.0 PROPERTY DESCRIPTION AND CONTACTS

2.1 SITE LOCATION AND ASSESSOR'S PARCEL NUMBER

The Project Site consists of approximately 16-acres of agricultural land and is a portion of a larger parcel of land (39.22-acres) identified by the Tulare County Assessor's Office as Assessor's Parcel Number (APN) 077-050-007-000. The Project Site is relatively flat and lies at an approximate elevation of 315-feet above mean sea level (amsl). A copy of the parcel map was presented in the PEA Workplan.

2.2 DESIGNATED CONTACT PERSON

Steve Pena, Director of Facilities
Visalia Unified School District
801 North Mooney Boulevard, Suite A, Visalia, CA 93291
(559) 931-8092, ext. 11202
spena01@vusd.org

2.3 PROPERTY USE

Based on Padre's site reconnaissance completed on February 18, 2025, the Project Site was planted with almond trees.

2.4 ENVIROSTOR DATABASE NUMBER

The EnviroStor database number for the Project Site is 60003861.

2.5 TOWNSHIP, RANGE, AND SECTION

The Project Site is located in Township 18 South, Range 24 East, Section 14 of the USGS 7½-Minute topographic series, Visalia, California Quadrangle Map (2021). The latitude and longitude near the approximate center of the Project Site are identified as:

Latitude (North): 36° 21' 55.38" (36.3653840)
Longitude (West): -119° 20' 39.48" (-119.3443000)

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

2.7.1 Topography

The Project Site is located on a relatively flat parcel of land within the northwestern portion of the town of Visalia. According to the United States Geological Survey (USGS) Visalia Quadrangle, California topographic map (2021), the Project Site is essentially flat and is located

at an elevation of approximately 315 feet above mean sea level (msl). The general topography for the Project Site area slopes gently to the southwest towards the Modoc Ditch located approximately 750 feet southwest of the Project Site. According to the 1927 topographic map, a topographic depression is observed at the southwest corner of the Project Site. This depression is not present in the 1949 topographic map. The location of the topographic depression is presented on **Plate 2-1**.

2.7.2 Geology

The Subject Property 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 Subject Property 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 California Geological Survey's *Geologic Map of California – Fresno Sheet, 1:250,000*, 1966, fourth printing 1991, the Project Site is underlain by the quaternary age alluvial fan (Qf) sedimentary deposits.

2.7.3 Soils

According to the United States Department of Agriculture, Soil Conservation Service's, *Soil Survey of Tulare County, California – Western Part* (2003), the surface soil at the Project Site includes primarily Akers-Akers saline-sodic complex, 0 to 2 percent slopes in the southern portion of the Project Site and Grangeville sandy loam, drained, 0 to 2 percent slopes in the northern portion of the Project Site.

Akers series consists of soil formed in alluvium derived granitic rock sources. The surface layers are light brownish gray fine sandy loam about 16 inches thick. The subsurface layers are pale brown fine sandy loam from a depth of 16 to 60 inches. The soil is well drained with moderate permeability and a low shrink-well potential.

Grangeville series consists of alluvium derived granitic rock sources. The surface layer is grayish brown fine sandy loam about 11 inches thick. The subsurface layer is a light brownish gray fine sandy loam from a depth of 11 to 20 inches. The subsoil is pale brown stratified fine sandy loam, loamy fine sand, and loam to a depth of 60 inches. The soil is somewhat poorly drained with a moderate to rapid permeability and a low shrink-well potential.

2.7.4 Groundwater

The Subject Property is located in the San Joaquin groundwater basin, Kaweah subbasin. The Kaweah Subbasin generally lies between the Kings subbasin to the north and Tule subbasin to the south and between the Kings River Conservation District on the west and crystalline bedrock of the Sierra Nevada foothills on the east. The west flowing Kaweah River is the primary source of recharge to the area.

Based on a review of the California Department of Water Resources water data library station map for groundwater wells located in the vicinity of the Project Site, the depth to groundwater beneath the Project Site is estimated to range from 110 to 120 feet below ground surface (bgs) and generally flows in the northwest direction. It should be noted that regional groundwater pumping associated with agricultural production activities may influence groundwater depths and flow direction at various times of the year. Depending on the proximity of nearby wells, actual groundwater depths at the site may vary significantly from those noted.

2.7.5 Radon

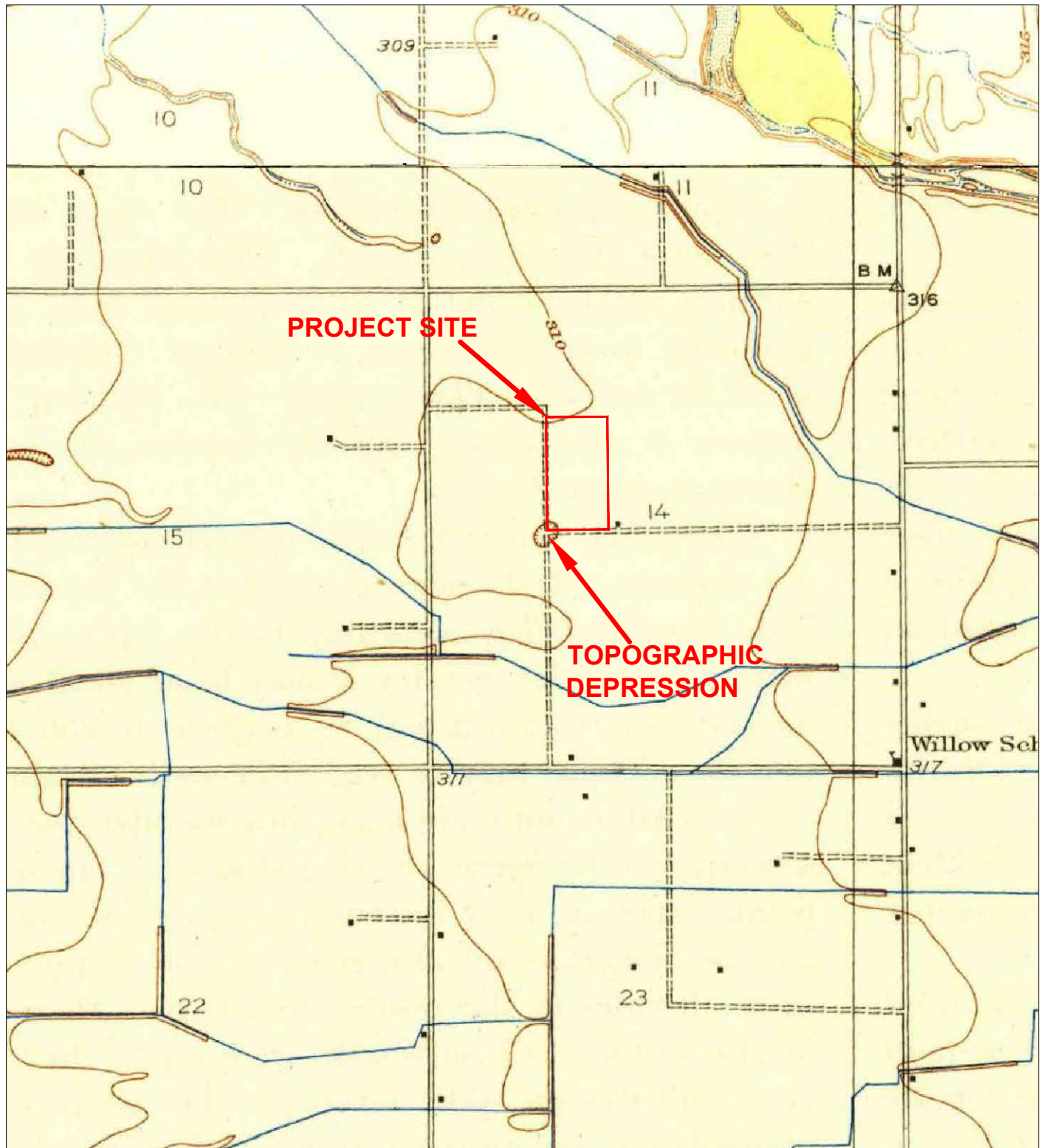
According to the U.S. EPA map of California radon zones, Tulare County is identified as a Zone 2 (orange) county. Zone 2 counties have a predicted average indoor radon screening level between 2 pCi/L and 4 pCi/L. According to the California Indoor Radon Test Results for Zip Code 93291 (updated February 2016), 90 radon tests were conducted with 28 sites reported to have radon levels ≥ 4 pCi/L. This represents 15.3% of the radon tests in the Project Site Zip Code.

According to the U.S. EPA document titled: *Building Radon Out, April 2001 (EPA/402-K-01-002)*, "Soil testing for radon is not recommended for determining whether a house should be built radon-resistant. Although soil testing can be done, it cannot rule out the possibility that radon could be a problem in the house you build on a lot. Even if soil testing reveals low levels of radon gas in the soil, the amount of radon that may enter the finished house cannot be accurately predicted because one cannot predict the impact that the site preparation will have on introducing new radon pathways or the extent to which a vacuum will be produced by the house."

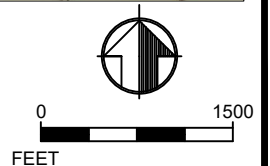
The potential for radon hazard at the Project Site is considered moderate and is dependent on site-design and building construction specifications. Currently, there are no design plans for the Project Site. If/when site development occurs the potential for "indoor radon risk" can be addressed during the CEQA process. Therefore, radon testing was not proposed as part of the PEA.

2.7.6 Sea Level Rise

According to DTSC's *Draft Sea Level Rise Guidance to DTSC Project Managers for Cleanup Activities* dated February 2023, Sea Level Rise (SLR) has the potential to significantly impact wastes at a site by causing groundwater levels to rise, by inundation, and by the subsequent deterioration of the remedy and mobilization of contaminants. The Project Site is located approximately 110-miles from the Pacific Ocean and the potential for SLR to impact the Project Site is considered insignificant.



U.S.G.S. 7.5 MINUTE QUADRANGLE
VISALIA, CA 1927



padre
associates, inc.
ENGINEERS, GEOLOGISTS &
ENVIRONMENTAL SCIENTISTS

LOWREY / RANCH (EAST)
VISALIA UNIFIED SCHOOL DISTRICT
VISALIA, CALIFORNIA

PROJECT NO. 2401-4671	DATE 4/22/25	DR. BY AC	APP. BY AJK
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PLATE 2-1

1927 TOPOGRAPHIC MAP

3.0 BACKGROUND

3.1 SITE HISTORY

The Project Site has been owned by Larry J. Ritchie and Mary E. Ritchie, Trustees of the Larry and Mary Ritchie Living Trust, a local farmer, since 2019. The property appears to have been in the Ritchie family since before 1978, when it was deeded by Ruby R. Ritchie to Clarence J. Ritchie in 1978.

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. No building structures are currently located onsite. Two farm outbuildings were present in a 1969 aerial photograph. The farm outbuildings are not present in the previous 1952 photograph and are not present in the following 1977 photograph. Based on aerial photographs, the Project Site was transected by Modoc Ditch from at least 1937 through 1952. The irrigation ditch was relocated and no longer crossed the Project Site sometime between 1952 and 1969.

Padre completed a site reconnaissance of the Project Site on February 18, 2025. The Project Site was planted with almond trees. No building structures, irrigation wells or transformers were identified at the Project Site. At the northwest corner of the Project Site, on the adjacent property there is a water detention basin, an irrigation well, a pole-mounted electrical transformer, several aboveground storage tanks (ASTs) containing fertilizer, and a small storage shed. At the southeast corner of the Project Site, on the adjacent property there is a batting cage structure, small storage shed, irrigation well and pad-mounted electrical transformer. Unpaved farm roads separate these features from the Project Site.

According to the Tulare County Agricultural Commissioner, pesticides requiring a use permit have been issued for the Subject Property within the last 4 years. Mr. Ritchie indicated that Roundup, Merivon, Xemium Band Fungicide, Zinc, and Nutrisyne Boron were used. Padre did not identify any chemicals that would require additional laboratory analyses of soil, other than the standard requirement of organochlorine pesticides (OCPs), arsenic and lead for the Project Site almond orchard.

A review of the Environmental Data Resources (EDR) Radius Map Report (January 2025) 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. According to the EDR Environmental Lien Search, no environmental liens or AULs were identified for the Project Site.

Padre reviewed the California Department of Toxic Substances Control (DTSC), Envirostor Database website for facilities that may present a recognized environmental concern to the Project Site. No facilities were identified in April 2025.

Padre reviewed the California State Water Resources Control Board (SWRCB) GeoTracker website for facilities that may present a recognized environmental concern to the Project Site. No facilities were identified in April 2025..

3.2 SURROUNDING PROPERTY LAND USE

The Project Site is bordered to the north by an irrigation ditch, beyond which is agricultural land and an irrigation pond; to the east by agricultural land and a farm equipment and storage building; to the south by an unpaved road identified as West River Way Drive, beyond which is agricultural land; and to the west by an unpaved road, beyond which is agricultural land.

A review of the 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 REC to the Project Site.

Padre reviewed the California SWRCB GeoTracker website for facilities that may present a recognized environmental concern to the Project Site. No facilities were identified in April 2025.

Padre reviewed the California DTSC Envirostor Database website for facilities that may present a recognized environmental concern to the Project Site. Two facilities located within 1-mile radius of the Project Site were identified on the Envirostor List. The two properties are school sites (Envirostor ID Nos. 60000112 and 60002713) that were evaluated or remediated under the oversight of DTSC. Neither of these properties 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 row crops (pre-1950s – circa 2014) and an almond orchard to present day;
- Historical aerial photographs identify the presence of former outbuildings and equipment storage at the southeast portion of the Project Site. These structures equipment area was present on the Project Site prior to 1969 and removed after 1977. Soil sampling for OCPs, CAM 17 metals, and total petroleum hydrocarbons (TPH) was performed at these locations;
- According to the 1927 topographic map, a topographic depression is observed at the southwest corner of the Project Site. This depression is not present in the 1949 topographic map. Exploratory drill holes at the southwest corner of the Project Site are proposed to determine if non-native material was potentially deposited. Soil sampling for OCPs, CAM 17 metals, and TPH was performed at this location;
- 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 8.25 miles upgradient of the Project Site. However, the Ferguson and Leila School Site (Envirostor ID No. 70000054) located approximately 1.5 miles southeast of the Site, and the Shannon Ranch School Site (Envirostor ID No. 60002085) located approximately 2.1 miles southeast of the Project Site, were investigated for the presence of naturally occurring asbestos (NOA) and according to

published reports (BSK, 2007 and Geosyntec, 2015) analyzed soil samples did not contain detectable concentrations of asbestos. Therefore, sampling for NOA in soil was not proposed;

- One pad-mounted electrical transformer with a manufacturer date of January 2007 was identified at the west boundary of the Project Site. Based on the age of the transformer (post-1979), sampling for PCBs in soil was not proposed;
- The potential for radon hazard at the Project Site is considered moderate and is dependent on site-design and building construction specifications. Currently, there are no development or construction plans for the Project Site. If/when site development occurs the potential for “indoor radon risk” can be addressed during the CEQA process. Therefore, radon testing was not proposed as part of the PEA; and
- Municipal water will be provided by California Water Service and sewer services will be provided by the City of Visalia – Public Works Department.

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.

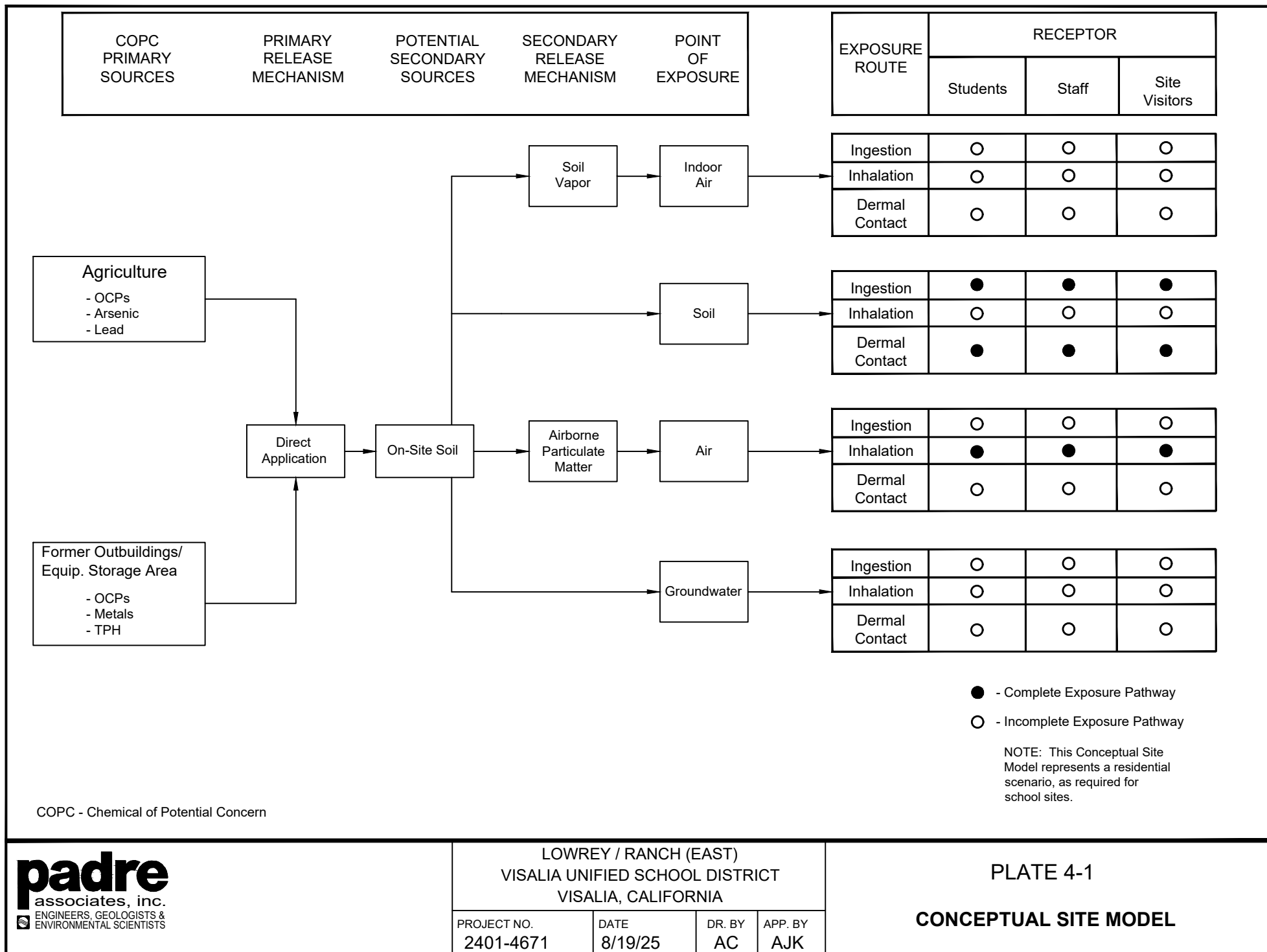
For humans and animals, exposure usually occurs by the following exposure routes:

- 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, site visitors, and construction workers to COPC in soil via the ingestion and dermal contact routes is considered a complete exposure pathway;
- Exposure of students, staff, site visitors, and construction workers to COPC in airborne particulate matter via the inhalation route is considered a complete exposure pathway;
- Exposure of students, staff, site visitors, and construction workers to COPC in soil vapor via the inhalation route is considered an incomplete exposure pathway;
- Municipal drinking water and irrigation water will be provided to the Project Site. Therefore, the 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 15 and August 1, 2025, in general accordance with the DTSC approved PEA workplan dated June 25, 2025. At the time of field sampling activities, the Project Site was actively being farmed as an almond orchard.

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:

Orchard

At twenty-two (22) locations discrete surface soil samples were collected from a grid-pattern across the Project Site. The discrete soil samples (selected by Padre) were made into four (4), 4-point composite soil samples and two (2), 3-point composite samples by the analytical laboratory. The composite soil samples were chemically analyzed for the presence of OCPs. Prior to the analytical laboratory preparing composite soil samples, one discrete soil sample was selected from each composite grouping and chemically analyzed for the presence of arsenic and lead. Sample location areas are presented on **Plate 5-1**.

Former Equipment and Storage Area

At twelve (12) locations discrete surface soil samples were collected from a grid-pattern across the Project Site. The discrete soil samples (selected by Padre) were made into four (4), 3-point composite soil samples by the analytical laboratory. The composite soil samples were chemically analyzed for the presence of OCPs, CAM 17 metals, and TPH (as gasoline, diesel, and motor oil). Sample location areas are presented on **Plate 5-2**.

Former Topographic Depression

At the southwest corner of the Project Site, three drill holes were manually advanced to approximate depths of 5 feet using hand-auger technique. Soil cuttings were visually inspected to determine evidence of non-native material; soil discoloration; and/or evidence of debris material. Based on field observations, two soil samples were collected per drill hole. If there was no visual evidence of potential soil contamination, then soil samples were collected from approximate depths of 2- and 4-feet bgs. The collected soil samples were chemically analyzed for the presence of OCPs, CAM 17 metals, and TPH (as gasoline, diesel, and motor oil). The drill hole locations are presented on **Plate 5-3**.

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 for selected analyses. Padre requested the analytical laboratory to split selected soil samples to be chemically analyzed as duplicates for OCPs, metals, and TPH.

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 soil samples were collected using hand sampling tools including a hand pick and hand 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.

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 soil sample collection activities, the small amount of wash water was dispersed to the orchard area. 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 consisted 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 by U.S. EPA Method 6020;
- Lead by U.S. EPA Method 6020;
- CAM 17 metals by U.S. EPA Method 6020/7000; and
- TPH (-g,-d,-mo) by U.S. EPA Method 8015M.

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 secure 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

Additional soil samples were collected from the area referenced as "Former Topographic Depression", located at the southwest corner of the Project Site. Based on the analytical laboratory results of the initial PEA sampling event, Padre returned to the Project Site on August 1, 2025, and collected step-out soil samples at the location of sample location DH-3. Step-out soil samples were analyzed for the presence of arsenic. Refer to Plate 5-3.

Table 5-1: GPS Soil Sample Locations

Sample Identification	Coordinates	
	Latitude	Longitude
Orchard		
AG-1	36.367152°	-119.345180°
AG-2	36.367157°	-119.343972°
AG-3	36.366878°	-119.344803°
AG-4	36.366878°	-119.343606°
AG-5	36.366611°	-119.345172°
AG-6	36.366610°	-119.343972°
AG-7	36.366337°	-119.344797°
AG-8	36.366338°	-119.343605°
AG-9	36.366068°	-119.345175°
AG-10	36.366065°	-119.343968°
AG-11	36.365790°	-119.344795°
AG-12	36.365791°	-119.343604°
AG-13	36.365524°	-119.345173°
AG-14	36.365525°	-119.343970°
AG-15	36.365250°	-119.344798°
AG-16	36.365247°	-119.343601°
AG-17	36.364896°	-119.345164°
AG-18	36.364900°	-119.344422°
AG-19	36.364447°	-119.345164°
AG-20	36.364450°	-119.344421°
AG-21	36.364003°	-119.345166°
AG-22	36.364003°	-119.344419°

Table 5-1: GPS Soil Sample Locations (cont')

Sample Identification	Coordinates	
	Latitude	Longitude
Former Equipment and Storage Area		
SS-1	36.364841°	-119.343920°
SS-2	36.364843°	-119.343678°
SS-3	36.364854°	-119.343431°
SS-4	36.364577°	-119.343920°
SS-5	36.364577°	-119.343679°
SS-6	36.364575°	-119.343433°
SS-7	36.364281°	-119.343921°
SS-8	36.364283°	-119.343678°
SS-9	36.364271°	-119.343426°
SS-10	36.363957°	-119.343926°
SS-11	36.363957°	-119.343674°
SS-12	36.363959°	-119.343444°
Former Topographic Depression		
DH-1	36.363928°	-119.345484°
DH-2	36.363835°	-119.345478°
DH-3	36.363857°	-119.345315°

GPS – U.S. Global Positioning Satellite System

Table 5-2. Field Sampling Schedule

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
Orchard				
OCPs by U.S. EPA Method 8081B	Surface (0-0.5 feet)	22 (discrete)	CS-1: AG-1, -2, -3, -4 CS-2: AG-5, -6, -7, -8 CS-3: AG-9, -10, -11, -12 CS-4: AG-13, -14, -15, -16 CS-5: AG-17, -18, -19 CS-6: AG-20, -21, -22 Duplicate: CS-4	Analyze
Arsenic by U.S. EPA Method 6020	Surface (0-0.5 feet)	6 (discrete)	AG-1, -6, -11, -16, -17, -21 Duplicate: AG-11	Analyze
Lead by U.S. EPA Method 6020	Surface (0-0.5 feet)	6 (discrete)	AG-1, -6, -11, -16, -17, -21 Duplicate: AG-21	Analyze

OCPs – organochlorine pesticides

CS – composite sample

Table 5-2. Field Sampling Schedule (cont')

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
Former Equipment and Storage Area				
OCPs by U.S. EPA Method 8081B	Surface (0-0.5 feet)	12 (discrete)	CS-1: SS-1, -2, -3 CS-2: AG-4, -5, -6 CS-3: AG-7, -8, -9 CS-4: AG-10, -11, -12 Duplicate: CS-1	Analyze
CAM 17 Metals U.S. EPA Method 6020/7000	Surface (0-0.5 feet)	12 (discrete)	CS-1: SS-1, -2, -3 CS-2: AG-4, -5, -6 CS-3: AG-7, -8, -9 CS-4: AG-10, -11, -12 Duplicate: CS-2	Analyze
TPH by U.S. EPA Method 8015M	Surface (0-0.5 feet)	12 (discrete)	CS-1: SS-1, -2, -3 CS-2: AG-4, -5, -6 CS-3: AG-7, -8, -9 CS-4: AG-10, -11, -12 Duplicate: CS-3	Analyze

OCPs – organochlorine pesticides
TPH – total petroleum hydrocarbons
CS – composite sample

Table 5-2. Field Sampling Schedule (cont')

Test Method	Sample Depth	Number of Samples	Sample Location	Submittal Status
Former Topographic Depression (SW corner of Project Site)				
OCPs by U.S. EPA Method 8081B	Subsurface (2- and 4-ft bgs)	6 (discrete)	DH-1, DH-2, DH-3	Analyze
CAM 17 Metals by U.S. EPA Method 6020/7000	Subsurface (2- and 4-ft bgs)	6 (discrete)	DH-1, DH-2, DH-3	Analyze
TPH by U.S. EPA Method 8015M	Subsurface (2- and 4-ft bgs)	6 (discrete)	DH-1, DH-2, DH-3	Analyze
QA/QC Samples (water)				
Arsenic and Lead by U.S. EPA Method 200.8	NA	1 per day	Equipment Blank (EB-1, etc.)	Analyze
		1 per day	Field Blanks (FB-1, etc.)	Analyze

OCPs – organochlorine pesticides

TPH – total petroleum hydrocarbons

bgs – below grade surface

Table 5-3: Sample Collection Information

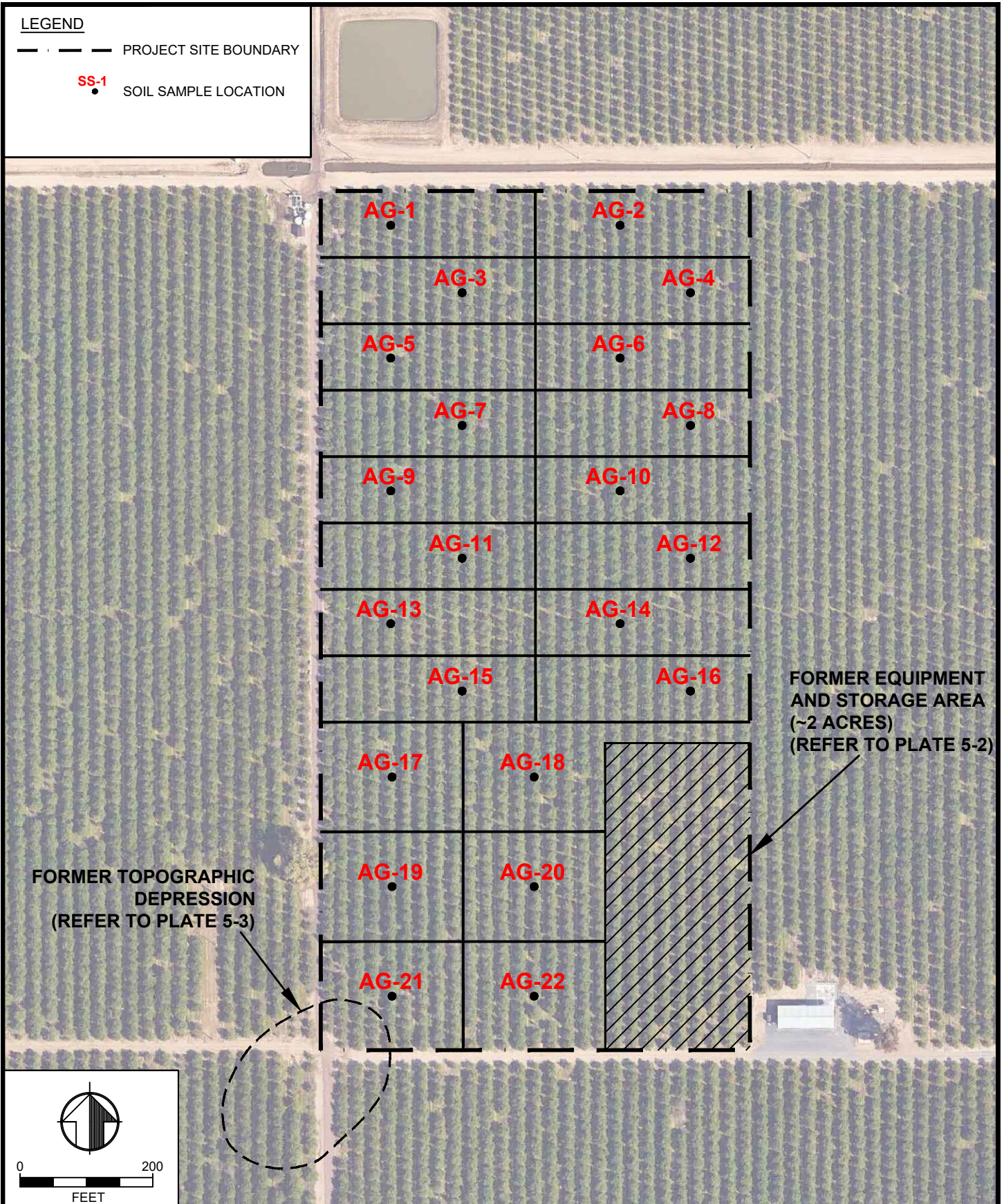
Sample Matrix and Test Method	Container	Preservative	Holding Time From Sample Collection to Extraction
Soil			
OCPs U.S. EPA Method 8081B	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days
Arsenic U.S. EPA Method 6020	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	180 days
Lead U.S. EPA Method 6020	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	180 days
CAM 17 Metals U.S. EPA Method 6020/7000	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	180 days
TPH (-g,-d,-mo) U.S. EPA Method 8015M	2-inch x 6-inch stainless steel liners and plastic ends caps	Ice	14 days
Water			
Arsenic and Lead U.S. EPA Method 200.8	1- 250 milliliter poly bottle	Ice	180 days

OCP – organochlorine pesticides
TPH – Total petroleum hydrocarbons

LEGEND

— PROJECT SITE BOUNDARY

SS-1
• SOIL SAMPLE LOCATION



padre
associates, inc.
ENGINEERS, GEOLOGISTS &
ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (3/24)

LOWREY / RANCH (EAST)
VISALIA UNIFIED SCHOOL DISTRICT
VISALIA, CALIFORNIA

PROJECT NO.
2401-4671

DATE
8/25/25

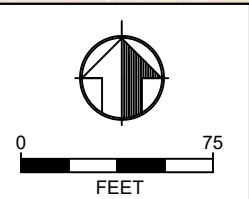
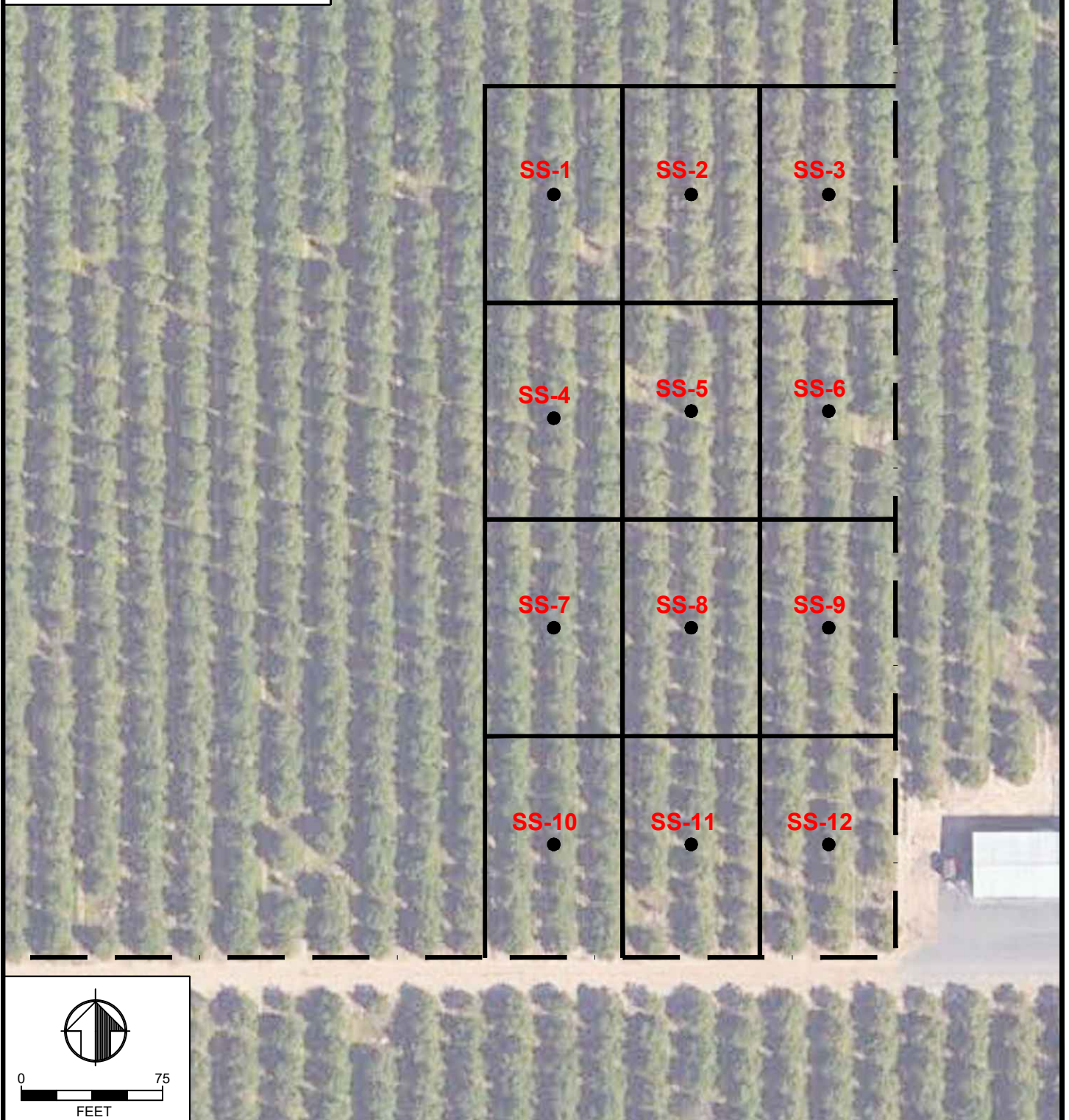
DR. BY
AC

APP. BY
AJK

PLATE 5-1
SOIL SAMPLING PLAN
(ORCHARD)

LEGEND

- · — · — PROJECT SITE BOUNDARY
- SS-1
• SOIL SAMPLE LOCATION



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ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (3/24)

LOWREY / RANCH (EAST)
VISALIA UNIFIED SCHOOL DISTRICT
VISALIA, CALIFORNIA

PROJECT NO.
2401-4671

DATE
8/19/25

DR. BY
AC

APP. BY
AJK

PLATE 5-2
SOIL SAMPLING PLAN
(FORMER EQUIPMENT AND
STORAGE AREA)

LEGEND

--- PROJECT SITE BOUNDARY

DH-1
● DRILL HOLE LOCATION

**APPROXIMATE DEPRESSION
BOUNDARY**

ORCHARD

DH-1

DH-2

DH-3



0 40
FEET

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VISALIA, CALIFORNIA

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8/19/25

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PLATE 5-3

**FORMER TOPOGRAPHIC
DEPRESSION SAMPLING PLAN**

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 **Table 6-4**. Certified analytical laboratory reports and chain-of-custody documentation are provided in **Appendix E**.

6.1 SOIL RESULTS – ORCHARD

Collected surface soil samples in the orchard area were analyzed for OCPs, arsenic, and lead. The results are summarized below.

6.1.1 OCPs

Results of the laboratory analyses are presented in **Table 6-1** and summarized below:

- OCPs were not reported at or above their respective detection limits.

6.1.2 Arsenic

Results of the laboratory analyses are presented on **Plate 6-1**, in **Table 6-2** and summarized below:

- Arsenic was reported at concentrations ranging from 4.5 to 5.5 milligrams per kilogram (mg/kg).

6.1.3 Lead

Results of the laboratory analyses are presented on **Plate 6-1**, in **Table 6-2** and summarized below:

- Lead was reported at concentrations ranging from 5.8 to 6.7 mg/kg.

6.2 SOIL RESULTS – FORMER EQUIPMENT AND STORAGE AREA

Collected surface soil samples in the former equipment and storage area were analyzed for OCPs, CAM 17 metals, and TPH (as gasoline, diesel, and motor oil). The results are summarized below.

6.2.1 OCPs

Results of the laboratory analyses are presented on **Plate 6-2**, in **Table 6-1** and summarized below:

- DDE was reported at concentrations ranging from less than 4.9 to 6.2 micrograms per kilogram ($\mu\text{g/kg}$); and
- No other OCPs were reported at or above their respective detection limits.

6.2.2 CAM 17 Metals

Results of the laboratory analyses are presented in **Table 6-3** and summarized below:

- Antimony concentrations ranged from less than 0.95 to 3.0 mg/kg;
- Arsenic concentrations ranged from 3.7 to 4.4 mg/kg;
- Barium concentrations ranged from 82 to 110 mg/kg;
- Chromium concentrations ranged from 14 to 20 mg/kg;
- Cobalt concentrations ranged from 5.4 to 6.7 mg/kg;
- Copper concentrations ranged from 17 to 21 mg/kg;
- Lead concentrations ranged from 6.0 to 6.7 mg/kg;
- Nickel concentrations ranged from 9.2 to 26 mg/kg;
- Vanadium concentrations ranged from 40 to 47 mg/kg;
- Zinc concentrations ranged from 67 to 83 mg/kg; and
- No other metals were reported at or above their respective detection limits.

6.2.3 TPH-gas, diesel, motor oil

Results of the laboratory analyses are presented on **Plate 6-3**, in **Table 6-4** and summarized below:

- TPH-gasoline was not reported at or above the laboratory reporting limit;
- TPH-diesel concentrations ranged from less than 9.9 to 23 mg/kg; and
- TPH-motor oil concentrations ranged from less than 20 to 52 mg/kg.

6.3 SOIL RESULTS – FORMER TOPOGRAPHIC DEPRESSION

Soil cuttings were visually inspected to determine evidence of non-native material; soil discoloration; and/or evidence of debris material. Based on field observations, soil observed in the drill holes consisted of a brown to dark brown silty sand with no indication of non-native debris material. Drill hole logs are presented in **Appendix D**.

Collected surface soil samples were analyzed for OCPs, CAM 17 metals, and TPH (as gasoline, diesel, and motor oil). The results are summarized below.

6.3.1 OCPs

Results of the laboratory analyses are presented in **Table 6-1** and summarized below:

- OCPs were not reported at or above their respective detection limits.

6.3.2 CAM 17 Metals

Results of the laboratory analyses are presented in **Table 6-3** and summarized below:

- Arsenic concentrations ranged from 2.8 to 15 mg/kg;
- Barium concentrations ranged from 81 to 120 mg/kg;
- Chromium concentrations ranged from 15 to 19 mg/kg;
- Cobalt concentrations ranged from 5.4 to 8.3 mg/kg;
- Copper concentrations ranged from 8.9 to 17 mg/kg;
- Lead concentrations ranged from 4.3 to 7.5 mg/kg;
- Nickel concentrations ranged from 9.2 to 13 mg/kg;
- Vanadium concentrations ranged from 40 to 67 mg/kg;
- Zinc concentrations ranged from 39 to 44 mg/kg; and
- No other metals were reported at or above their respective detection limits.

The arsenic results are presented on **Plate 6-4**.

6.3.3 TPH-gas, -diesel, -motor oil

Results of the laboratory analyses are presented in **Table 6-4** and summarized below:

- TPH-gasoline was not reported at or above the laboratory reporting limit;
- TPH-diesel was not reported at or above the laboratory reporting limit; and
- TPH-motor oil was not reported at or above the laboratory reporting limit.

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. Arsenic was not reported at or above the analytical reporting limit of 2.0 micrograms per liter ($\mu\text{g/L}$), and lead was not reported at or above the reporting limit of 5.0 $\mu\text{g/L}$.

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. Arsenic was not reported at or above the analytical reporting limit of 2.0 micrograms per liter ($\mu\text{g/L}$), and lead was not reported at or above the reporting limit of 5.0 $\mu\text{g/L}$.

6.5 LABORATORY QA/QC and DATA VALIDATION

Enthalpy Analytical (Enthalpy) located in Orange, California provided the required chemical analyses for soil and water samples collected at the Project Site. Enthalpy is certified (No. 1338) by the State of California Environmental Laboratory Accreditation Program (ELAP) Branch to provide the required chemical analyses.

A cover letter with the signature of the lab director of Enthalpy Analytical, Inc. (Enthalpy) accompanies every laboratory report received for this project. According to the lab director, samples were analyzed utilizing U.S. 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 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	Chlordane	DDD	DDE	DDT	Dieldrin
CS-4	<49	<4.9	<4.9	<4.9	<4.9
CS-4 (duplicate)	<50	<5.0	<5.0	<5.0	<5.0
RPD (%)	0	0	0	0	0
Within Acceptable Range	Yes	Yes	Yes	Yes	Yes
CS-7	<50	<5.0	<5.0	<5.0	<5.0
CS-7 (duplicate)	<51	<5.1	<5.1	<5.1	<5.1
RPD (%)	0	0	0	0	0
Within Acceptable Range	Yes	Yes	Yes	Yes	Yes

Arsenic and Lead

Sample Identification	Arsenic	Lead
AG-11	4.6	--
AG-11 (duplicate)	4.7	--
RPD (%)	2.2	--
Within Acceptable Range	Yes	Yes
AG-21	--	6.2
AG-21 (duplicate)	--	6.3
RPD (%)	--	1.6
Within Acceptable Range	Yes	Yes

CAM 17 Metals

Sample Identification	Arsenic	Barium	Chromium	Cobalt	Copper	Lead	Nickel	Vanadium	Zinc
CS-8	3.7	110	16	6.4	19	6.1	11	42	70
CS-8 DUPE	3.8	100	20	6.7	18	6.0	26	42	67
RPD (%)	2.7	9.5	22.2	4.6	5.4	1.7	81.1	0	4.4
Within Acceptable Range	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

TPH

Sample Identification	TPH – gasoline	TPH – diesel	TPH – motor oil
CS-9	<3.1	<10	<20
CS-9 DUPE	<2.9	<10	<20
RPD (%)	0	0	0
Within Acceptable Range	Yes	Yes	Yes

The RPDs for the original and duplicate constituents 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 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 June 2025 and approved by DTSC. Laboratory reporting limits for TPH and metals were at or below the respective screening levels provided in DTSC's HHRA Note No.3 (revised April 2025) and/or the U.S. EPA's Region 9 RSLs (November 2024). The reporting limit for the analysis of OCPs exceeded their respective screening levels for composite sample CS-10 as a result of sample dilution due to the dark color of the sample extracts. Based on an overall review of the analytical data, (i.e., one detection of DDE at 6.2 µg/kg), it is Padre's opinion that the sample results are acceptable, and the data is considered valid.

6.5.7 Chain-of-Custody

Completed chain-of-custody forms were provided with the samples upon sample delivery to Enthalpy. Copies of the chain-of-custody (COC) forms were included in the final analytical report. The analytical laboratory noted that soil sample DH-7 (5-5.5') was incorrectly identified on the COC as DH-4 (5-5.5'). This was remedied based on the sample identification and time on the sample container.

6.5.8 Holding Time(s)

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

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

Sample Identification	Date Collected	Depth (feet)	Aldrin	alpha-BHC	beta-BHC	delta-BHC	Gamma-BHC	Chlordane-technical	DDD	DDE	DDT	Dieldrin	Endosulfan I	Endosulfan II	Endosulfan Sulfate	Endrin	Endrin Aldehyde	Endrin Ketone	Heptachlor	Heptachlor Epoxide	Methoxychlor	Toxaphene
Orchard																						
CS-1 (AG-1, -2, -3, -4)	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
CS-2 (AG-5, -6, -7, -8)	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<9.9	<99
CS-3 (AG-9, -10, -11, -12)	7-15-25	0-0.5'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
CS-4 (AG-13, -14, -15, -16)	7-15-25	0-0.5'	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<98
CS-4 (AG-13, -14, -15, -16) DUPE	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
CS-5 (AG-17, -18, -19)	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
CS-6 (AG-20, -21, -22)	7-15-25	0-0.5'	<4.9	<4.9	<4.9	<4.9	<4.9	<49	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<4.9	<9.8	<98
CS-7 (SS-1, -2, -3)	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
CS-7 (SS-1, -2, -3) DUPE	7-15-25	0-0.5'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
CS-8 (SS-4, -5, -6)	7-15-25	0-0.5'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
CS-9 (SS-7, -8, -9)	7-15-25	0-0.5'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	6.2	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
CS-10 (SS-10, -11, -12)	7-15-25	0-0.5'	<25	<25	<25	<25	<25	<250	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<25	<51	<510
DH-1	7-15-25	2'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
DH-1	7-15-25	4'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
DH-2	7-15-25	2'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
DH-2	7-15-25	4'	<5.0	<5.0	<5.0	<5.0	<5.0	<50	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<10	<100
DH-3	7-15-25	2'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
DH-3	7-15-25	4'	<5.1	<5.1	<5.1	<5.1	<5.1	<51	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<5.1	<10	<100
SL			39	86	300	3.8 ^(a)	570	1,700	1,900	2,000	1,900	34	450,000 ^(b)	450,000 ^(b)	380,000	19,000	19,000 ^(c)	19,000 ^(c)	130	70	320,000	450
3:1 COMP			13	29	100	1.3	190	567	634	667	634	12	150,000	150,000	126,700	6,334	6,334	6,334	44	23	106,7000	150
4:1 COMP			10	22	75	1.0	143	425	475	500	475	9	112,500	112,500	95,000	4,750	4,750	4,750	33	18	80,000	113

Notes:
µg/kg –micrograms per kilogram
SL - HHRA Note #3, Table 1 - DTSC-Recommended Screening Level (Revised April 2025)
NE – Not established
(a) - USEPA Regional Screening Level (November 2024)
(b) – Screening Level for Endosulfan
(c) – Screening Level for Endrin

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

Sample Identification	Date Collected	Depth (feet)	Arsenic	Lead
Orchard				
AG-1	7-15-25	0-0.5'	4.6	6.6
AG-6	7-15-25	0-0.5'	5.5	6.7
AG-11	7-15-25	0-0.5'	4.6	6.5
AG-11 DUPE	7-15-25	0-0.5'	4.7	--
AG-16	7-15-25	0-0.5'	4.5	6.0
AG-17	7-15-25	0-0.5'	4.9	5.8
AG-21	7-15-25	0-0.5'	4.7	6.2
AG-21 DUPE	7-15-25	0-0.5'	--	6.3
Project Site Range			4.5 – 5.5	--
Background Site Range			2.9 – 9.6 ^A	--
Screening Level				80 ^B

Notes:

mg/kg – milligrams per kilogram

-- Not analyzed

A – 2004/5 school site PEA (Envirostor Number 54880001)

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

**Table 6-3: CAM 17 Metals in Soil
(results in mg/kg)**

Sample Identification	Date Collected	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
CS-7 (SS-1, -2, -3)	7-15-25	0-0.5'	3.0	4.4	100	<0.97	<0.49	17	6.7	21	6.5	<0.15	<0.97	11	<3.9	<0.49	<0.97	47	83
CS-8 (SS-4, -5, -6)	7-15-25	0-0.5'	<0.96	3.7	110	<0.96	<0.48	16	6.4	19	6.1	<0.14	<0.96	11	<3.8	<0.48	<0.96	42	70
CS-8 (SS-4, -5, -6) DUPE	7-15-25	0-0.5'	<0.95	3.8	100	<0.95	<0.48	20	6.7	18	6.0	<0.16	<0.95	26	<3.8	<0.48	<0.95	42	67
CS-9 (SS-7, -8, -9)	7-15-25	0-0.5'	<0.96	3.9	98	<0.96	<0.48	16	6.1	20	6.7	<0.14	<0.96	9.6	<3.8	<0.48	<0.96	41	71
CS-10 (SS-10, 11, -12)	7-15-25	0-0.5'	<0.96	4.0	82	<0.96	<0.48	14	5.4	17	6.6	<0.14	<0.96	9.2	<3.8	<0.48	<0.96	40	76
DH-1	7-15-25	2'	<0.99	3.9	100	<0.99	<0.50	15	6.5	9.9	4.3	<0.17	<0.99	9.8	<4.0	<0.50	<0.99	41	40
DH-1	7-15-25	4'	<0.98	6.6	120	<0.98	<0.98	19	7.8	16	5.8	<0.15	<0.98	13	<3.9	<0.49	<0.98	58	42
DH-2	7-15-25	2'	<0.96	3.9	81	<0.96	<0.48	15	5.4	8.9	4.6	<0.15	<0.96	9.2	<3.8	<0.48	<0.96	43	39
DH-2	7-15-25	4'	<0.95	4.1	120	<0.95	<0.48	18	7.6	14	5.2	<0.16	<0.95	13	<3.8	<0.48	<0.95	46	44
DH-3	7-15-25	2'	<0.95	2.8	110	<0.95	<0.48	16	6.4	9.2	7.5	<0.15	<0.95	9.7	<3.8	<0.48	<0.95	40	41
DH-3	7-15-25	4'	<0.97	15	120	<0.97	<0.49	17	8.3	17	6.2	<0.16	<0.97	13	<3.9	<0.49	<0.97	67	39
RSL			31	AB	15,000	16 ^A	7.1 ^A	120,000	23	3,100	80 ^B	0.67 ^A	390	820 ^A	390	390	1.6	390	23,000
3:1 COMP			10.3	AB	5,000	5.3	2.4	40,000	7.7	1,033	27	0.22	130	273	130	130	0.53	130	7,667

Notes:

mg/kg – milligrams per kilogram

RSL – USEPA Regional Screening Level (November 2024)

-- - not analyzed

AB – Ambient background (2.9 – 9.6 mg/kg based on 2004/5 school site PEA ((Envirostor Number 54880001))

A - HHRA Note #3, DTSC-Recommended Screening Level (June 2020 – Revised April 2025)

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

**Table 6-3: CAM 17 Metals in Soil
(results in mg/kg)**

Sample Identification	Date Collected	Depth (feet)	Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenum	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
DH-3	8-1-25	5.0-5.5'	--	5.5	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DH-4	8-1-25	4.0-4.5'	--	3.8	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DH-5	8-1-25	4.0-4.5'	--	6.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DH-6	8-1-25	4.0-4.5'	--	11	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
DH-7	8-1-25	4.0-4.5'	--	6.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
RSL			31	AB	15,000	16 ^A	7.1 ^A	120,000	23	3,100	80 ^B	0.67 ^A	390	820 ^A	390	390	1.6	390	23,000
3:1 COMP			10.3	AB	5,000	5.3	2.4	40,000	7.7	1,033	27	0.22	130	273	130	130	0.53	130	7,667

Notes:

mg/kg – milligrams per kilogram

RSL – USEPA Regional Screening Level (November 2024)

-- - not analyzed

AB – Ambient background (2.9 – 9.6 mg/kg based on 2004/5 school site PEA ((Envirostor Number 54880001))

A - HHRA Note #3, DTSC-Recommended Screening Level (June 2020 – Revised April 2025)

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

**Table 6-4: 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
CS-7 (SS-1, -2, -3)	7-15-25	0-0.5'	<3.1	<10	<20
CS-8 (SS-4, -5, -6)	7-15-25	0-0.5'	<3.0	<9.9	<20
CS-9 (SS-7, -8, -9)	7-15-25	0-0.5'	<3.1	<10	<20
CS-9 (SS-7, -8, -9) DUPE	7-15-25	0-0.5'	<2.9	<10	<20
CS-10 (SS-10, 11, -12)	7-15-25	0-0.5'	<3.1	23	52
DH-1	7-15-25	2'	<3.0	<9.9	<20
DH-1	7-15-25	4'	<3.0	<10	<20
DH-2	7-15-25	2'	<3.1	<10	<20
DH-2	7-15-25	4'	<3.0	<10	<20
DH-3	7-15-25	2'	<3.0	<9.9	<20
DH-3	7-15-25	4'	<3.1	<9.9	<20
DTSC Screening Levels (SLs)			--	97	2,400
SL 3:1 Composite				32	800
RWQCB Environmental Screening Levels (ESLs)			460	200	1,600
ESL 3:1 Composite			154	67	534

Notes:

TPH – Total Petroleum Hydrocarbons

mg/kg – milligrams per kilogram

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

ESLs – SF Bay Regional Water Quality Control Board, Environmental Screening Levels (2025 Rev2)

-- not established

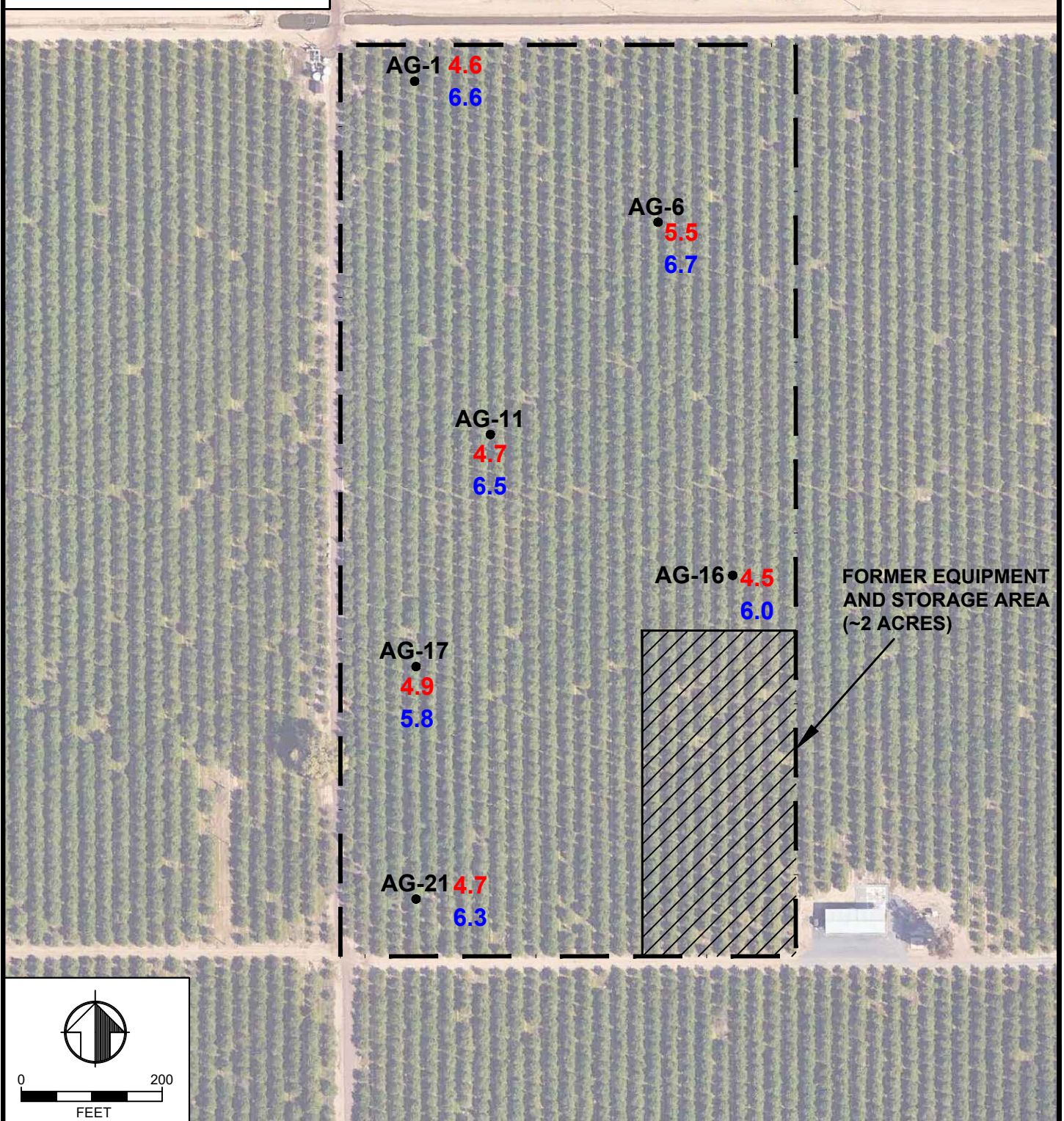
LEGEND

--- PROJECT SITE BOUNDARY

AG-1 • SOIL SAMPLE LOCATION

4.4 ARSENIC CONCENTRATION (mg/kg)

5.5 LEAD CONCENTRATION (mg/kg)



padre
associates, inc.
ENGINEERS, GEOLOGISTS &
ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (3/24)

LOWREY / RANCH (EAST)
VISALIA UNIFIED SCHOOL DISTRICT
VISALIA, CALIFORNIA

PROJECT NO.
2401-4671

DATE
8/15/25

DR. BY
AC

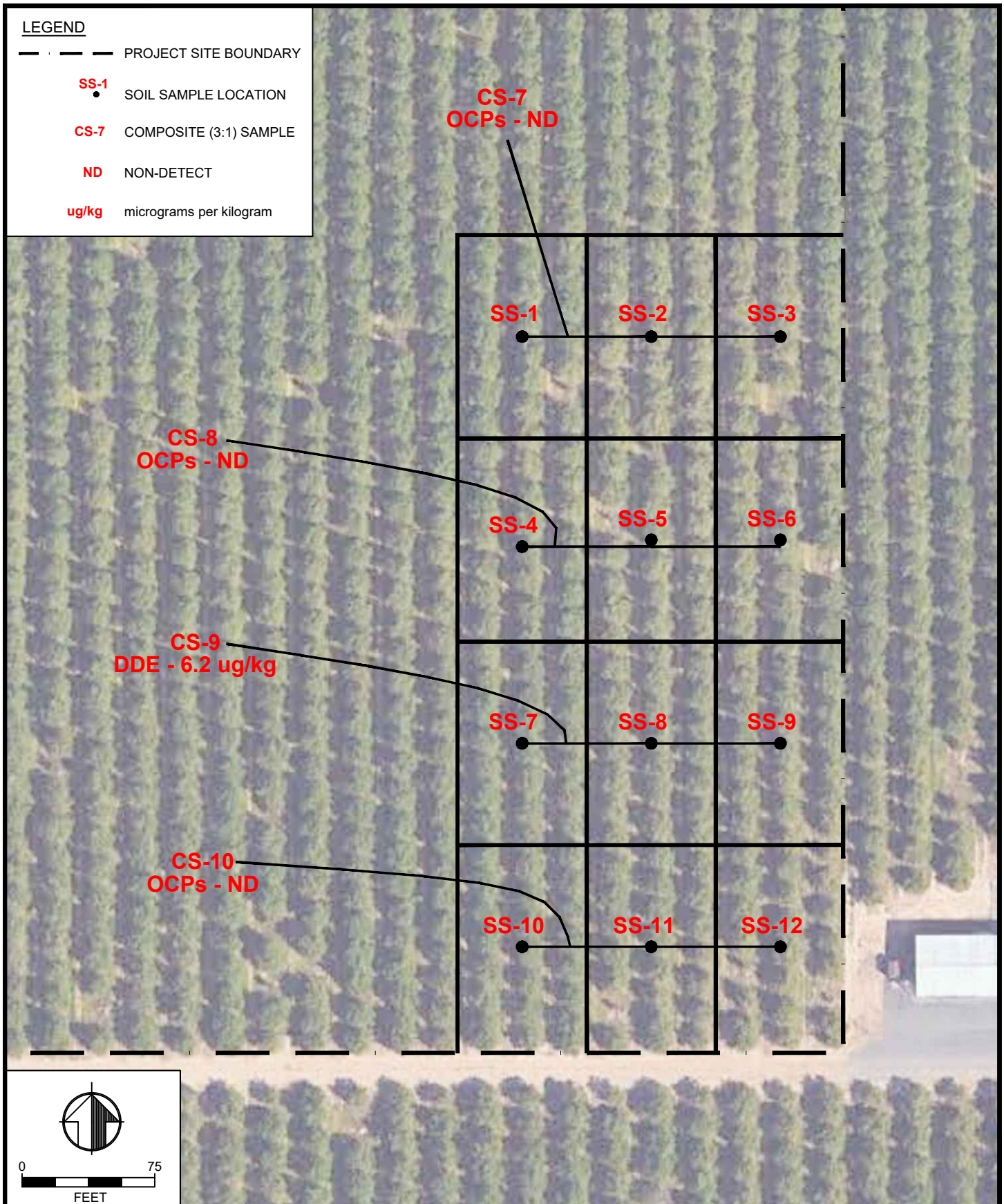
APP. BY
AJK

PLATE 6-1

**ARSENIC AND LEAD RESULTS
(ORCHARD)**

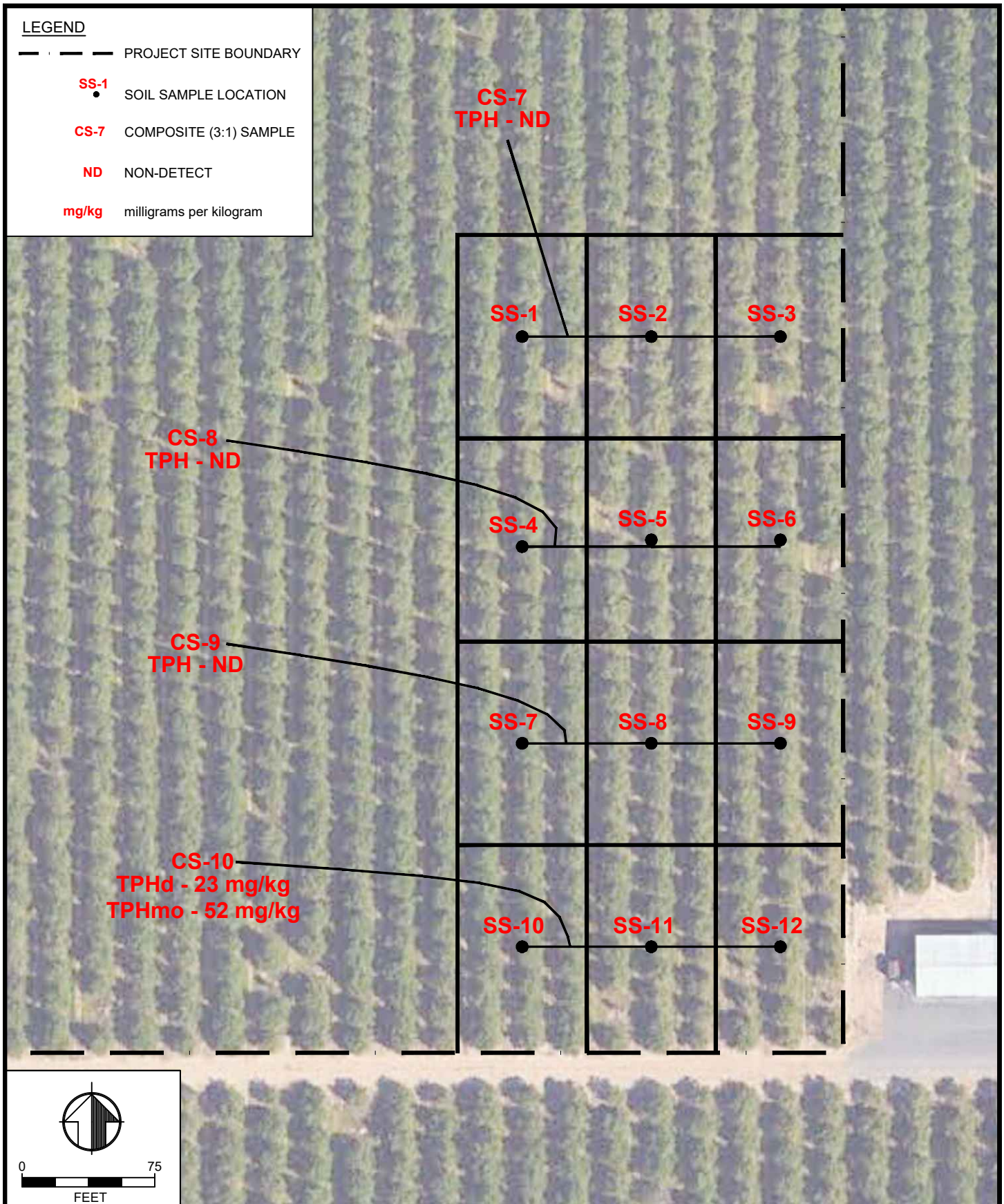
LEGEND

- PROJECT SITE BOUNDARY
- SS-1 SOIL SAMPLE LOCATION
- CS-7 COMPOSITE (3:1) SAMPLE
- ND NON-DETECT
- ug/kg micrograms per kilogram



LEGEND

- PROJECT SITE BOUNDARY
- SS-1 SOIL SAMPLE LOCATION
- CS-7 COMPOSITE (3:1) SAMPLE
- ND NON-DETECT
- mg/kg milligrams per kilogram



LEGEND

- PROJECT SITE BOUNDARY
- DH-1 DRILL HOLE LOCATION
- 3.9 ARSENIC CONCENTRATION (mg/kg)
- (2') SAMPLE DEPTH (2-feet)

APPROXIMATE DEPRESSION
BOUNDARY
(REFER TO PLATE 5-3)

DH-1
3.9 (2')
6.6 (4')

DH-2
3.9 (2')
4.1 (4')

DH-3
2.8 (2')
15 (4')
5.5 (5')

DH-4
3.8 (4')

DH-5
6.3 (4')

DH-6
11 (4')

DH-7
6.6 (4')



0 15
FEET

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associates
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ENVIRONMENTAL SCIENTISTS

GOOGLE EARTH IMAGERY (3/24)

LOWREY / RANCH (EAST)
VISALIA UNIFIED SCHOOL DISTRICT
VISALIA, CALIFORNIA

PROJECT NO. 2401-4671	DATE 8/25/25	DR. BY AC	APP. BY AJK
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PLATE 6-4
ARSENIC RESULTS
FORMER TOPOGRAPHIC
DEPRESSION

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:

- OCPs – DDE
- TPH – Diesel and Motor Oil
- Metals – Arsenic and Lead

7.2 SOIL RISK ASSESSMENT

The DTSC-modified screening levels provided in Human Health Risk Assessment (HHRA) Note 3 dated June 2020 (revised May 2022) were used to conduct a screening-level human health risk assessment using the residential land-use scenario. Carcinogenic screening levels are typically based on a predicted excess long-term cancer risk of one in a million. Non-carcinogenic screening levels are based on maintaining the daily COPC intake below the level at which deleterious health effects are considered possible.

In accordance with PEA guidance documents and DTSC's HHRA Note No. 4, dated May 2019, chemical concentrations in soil detected were evaluated as potential exposure point concentrations (EPCs). The maximum EPCs for the COPC were evaluated.

The EPCs were compared to their respective screening levels. The ratio of an EPC to the corresponding carcinogenic screening level was multiplied by 1E-06 to estimate the chemical-specific screening cancer risk. For noncarcinogens, the chemical-specific hazard index is the ratio of the EPC to the screening level based on noncarcinogenic effects. The risk screening equations are as follows:

For each carcinogenic chemical:

$$\frac{\text{Maximum Detected Concentration}}{\text{Screening Level}} \times 10^{-6} = \text{Cancer Risk}$$

For each non-carcinogenic chemical:

$$\frac{\text{Maximum Detected Concentration}}{\text{Screening Level}} = \text{Hazard Quotient}$$

The sums of the chemical-specific screening cancer risk and screening hazard index are the cumulative screening cancer risk and hazard index, respectively.

The total estimated risk from COPC identified in soils is estimated to be 3.1×10^{-9} , which does not provide an increased cancer risk of greater than 1 in 1,000,000 ($>10^{-6}$). The total health

hazard from COPC identified in soils is estimated to be 0.26 which does not present an increased health hazard (i.e., >1). The results of the screening-level evaluation are presented in **Table 7-1**.

The arsenic data set for the Project Site consisted of 21 soil samples, which ranged in concentrations from 3.1 mg/kg to 15 mg/kg. The Project Site arsenic data set was compared to the selected background arsenic data set that was presented in the PEA Workplan (Padre, June 2025). The arsenic background data set consisted of 13 soil samples, which ranged in concentrations from 2.9 to 9.6 mg/kg.

Two Project Site arsenic data points exceeded the highest arsenic background concentration of 9.6 mg/kg. Both data points were collected at depths of 4-feet bgs. Field observations did not identify the presence of non-native or debris material. The 95% upper confidence level (UCL) for arsenic in soil was calculated to be 6.5 mg/kg, which is below the highest arsenic background concentration of 9.6 mg/kg. Therefore, arsenic concentrations identified at the Project Site are considered comparable to background concentrations and further assessment or remedial action for arsenic in soil is not warranted. A copy of the 95% UCL arsenic calculation and background arsenic data and is presented in **Appendix F**.

Lead concentrations in soil ranged from 4.3 to 7.5 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. A copy of the LeadSpread Risk Assessment Spreadsheet is presented in **Appendix G**.

7.3 UNCERTAINTY ANALYSIS

The human health screening evaluation required the use of several generic and site-specific assumptions regarding the representativeness of sampling data, environmental fate and transport, human exposures, chemical toxicity, and associated cancer and noncancerous health risks. These assumptions are discussed below.

Factors possibly contributing to overestimation of the health risks include the following:

- The predicted risks and hazards are based on the maximum COC concentrations detected in the on-site soil samples that were collected during this PEA. Actual exposures for humans at the site would likely be at lower concentrations than the maximum most of the time.
- The evaluation assumed no degradation of COCs over time.
- Numerous assumptions related to human exposure are built into the calculations used for the screening evaluation. These assumptions include factors such as soil ingestion rates, potential dermal exposure to soil, dust

generation rates, daily breathing rates, human activity patterns, and time spent on site. Each assumed value is typically conservative for a generic person.

Factors possibly contributing to underestimation of the health risks include the following:

- Sample locations were selected with the objective of finding elevated concentrations, if present, but there is a possibility that other locations are present at the Project Site that have higher COC concentrations than the locations that were sampled as part of this PEA.
- The screening evaluation assumed that risks resulting from simultaneous exposure to multiple COCs is additive. It is possible that simultaneous exposure to multiple chemicals may result in synergistic effects, where certain chemicals magnify the toxicity of other chemicals.

As discussed above the majority of the assumptions for the human health screening evaluation were conservative in nature. The use of conservative assumptions tends to produce overestimates of risk. Although it is difficult to quantify the uncertainties associated with the assumptions used, the compounding relationship of the series of assumptions involved in the screening evaluation most likely creates an overestimate of health risks at the Project Site.

Table 7-1
Soil Exposure Screening Evaluation (Max Concentrations)
Lowrey / Ranch (East) School Site
Visalia, California

COC	EPC (mg/kg)	Carcinogenic Risk			Non-carcinogenic Hazard		
		Screening Level (mg/kg)	Source	Ratio of EPC to Screening Level	Screening Level (mg/kg)	Source	Ratio of EPC to Screening Level
DDE	0.0062	2	SL	3.1E-03	23	SL	2.7E-04
TPH-diesel	23	nc	SL	NA	97	SL	2.4E-01
TPH-motor oil	52	nc	SL	NA	2400	SL	2.2E-02
Total Risk (x10⁻⁶):				3.1E-09	Total Hazard:		2.6E-01

Notes:

COC = chemical of concern

EPC = exposure point concentration

Exposure Point Concentration = maximum detected concentration in soil

mg/kg = milligrams per kilogram

SL - Human Health Risk Assessment (Table 1 - DTSC-Recommended Screening Levels for Soil, June 2020 - Revised April 2025)

nc = non-carcinogenic

NE = not established

NA = not applicable

8.0 ECOLOGICAL SCREENING

Based on a review of aerial photographs, the Project Site has been in agriculture-use since pre-1950s through to the present day. There are no distinct native habitats or “unmanaged” landscape areas present at the Project Site. Therefore, there is no identified significant pathway of exposure to sensitive non-human receptors at the Project Site.

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:

- OCPs – DDE
- TPH – Diesel and Motor Oil
- Metals – Arsenic and Lead

Risk Assessment

The total estimated risk from COPC identified in soils is estimated to be 3.1×10^{-9} , which does not provide an increased cancer risk of greater than 1 in 1,000,000 ($>10^{-6}$). The total health hazard from COPC identified in soils is estimated to be 0.26 which does not present an increased health hazard (i.e., >1).

The arsenic data set for the Project Site consisted of 21 soil samples, which ranged in concentrations from 3.1 mg/kg to 15 mg/kg. The arsenic background data set consisted of 13 soil samples, which ranged in concentrations from 2.9 to 9.6 mg/kg. The 95% UCL for arsenic in soil was calculated to be 6.5 mg/kg, which is below the highest arsenic background concentration of 9.6 mg/kg. Therefore, arsenic concentrations identified at the Project Site are considered comparable to background concentrations and further assessment or remedial action for arsenic in soil is not warranted.

Lead concentrations in soil ranged from 4.3 to 7.5 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 Summit Collegiate High School Land Acquisition project.

10.0 REFERENCES

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- _____, DTSC, *Human Health Risk Assessment (HHRA) Note 4: Screening Level Human Health Risk Assessments*, Revised March 2022.
- _____, DTSC, *Interim Guidance, Evaluation of School Sites with Potential Contamination as a Result of Lead from Lead-Based-Paint, Organochlorine Pesticides from Termiticides, and Polychlorinated Biphenyls from Electrical Transformers*, revised June 9, 2006.
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- _____, DTSC, *Preliminary Environmental Assessment Guidance Manual*, January 1994, (Revised October 2015).
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- California Regional Water Quality Control Board – San Francisco Bay Region, *Environmental Screening Levels (ESLs)*, 2025 (Rev. 2).
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- Geosyntec Consultants. Inc., *Targeted Site Investigation, Preliminary Endangerment Assessment Report, Proposed Lowrey Ranch School*, July 2019.
- State Water Resources Control Board Geotracker website, (<http://geotracker.swrcb.ca.gov>).
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- U.S. EPA, *Regional Screening Levels (Region 9 RSLs)*, November 2024.
- U.S. Geological Survey, *Topographic Maps, Visalia 1927 – 2021*.

APPENDIX A
DTSC CORRESPONDENCE



Yana Garcia
Secretary for
Environmental Protection



Department of Toxic Substances Control

Katherine M. Butler, MPH, Director
8800 Cal Center Drive
Sacramento, California 95826-3200



Gavin Newsom
Governor

<https://dtsc.ca.gov/>

Sent Via Electronic Mail

July 3, 2025

Mr. Steven Pena
Director, Facilities
Visalia Unified School District
5000 W. Cypress Avenue
Visalia, California 93277
spena01@vusd.org

APPROVAL – PRELIMINARY ENVIRONMENTAL ASSESSMENT WORKPLAN, VISALIA UNIFIED SCHOOL DISTRICT, LOWERY RANCH EAST SCHOOL SITE, SOUTHEAST OF THE INTERSECTION OF AVENUE 320 AND N. AKERS STREET, VISALIA, TULARE COUNTY, CALIFORNIA (PROJECT CODE: 104904)

Dear Mr. Pena:

The Department of Toxic Substances Control (DTSC) reviewed the final Preliminary Environmental Assessment Work Plan (PEA Workplan – Padre Associates, Inc., June 25, 2025), received on June 25, 2025. The PEA Workplan includes project background information as well as proposed environmental investigation activities for a proposed new school to be located on an approximately 16-acre property southeast of the intersection of N. Akers Street and Avenue 320 in Visalia, 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 Visalia Unified 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 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.

Mr. Steven Pena

July 3, 2025

Page 2

DTSC understands 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 to make 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 this letter, please contact me at (916) 255-6666 or via email at Elizabeth.Tisdale@dtsc.ca.gov.

Sincerely,



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

cc: See next page.

Mr. Steven Pena

July 3, 2025

Page 3

cc: (via email)

Jennifer Frederick
Manager, Facilities Project
Visalia Unified School District
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Alan Churchill, PG
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Lok Ming (Tom) Tam, PhD
Staff Toxicologist
Human and Ecological Risk Office
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Lok-Ming.Tam@dtsc.ca.gov

Tim Crick, PE, Chief
Northern California Schools Unit
Site Mitigation and Restoration Program
Department of Toxic Substances Control
Tim.Crick@dtsc.ca.gov

APPENDIX B
SITE PHOTOGRAHS



Photo No.1 – PEA Field Notice posted at the southeast corner of the Project Site.



Photo No.2 – Soil sample location within the orchard.



Photo No.3 – Soil sample collection.



Photo No.4 – Decontamination station for soil sampling equipment.



Photo No.5 – Soil sampling equipment station.



Photo No.6 – Soil samples in cooler with ice prior to transportation to the analytical laboratory.



Photo No.7 – Interior of orchard.



Photo No.8 – Looking east along the south Project Site boundary.

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

APPENDIX E
SITE HEALTH AND SAFETY PLAN

Project Title: Preliminary Environmental Assessment for the VUSD Site #1.

Project Address: Located approximately 2,000 feet southeast of the intersection of North Akers Street and Avenue 320, Visalia, Tulare County, 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.

	Name	Signature
Site Safety Officer:	Alan Churchill	_____
Field Team Leader:	Alan Churchill	_____
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 located:	Within Padre Associates, Inc. vehicle or with Padre staff.
Emergency Facility:	Kaweah Health Medical Center
Address:	400 West Mineral King Avenue, Visalia, Ca 93291
Phone:	(559) 624-2000
Estimate travel time:	Approximately 15 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:	Located 2,000 ft southeast of the intersection of North Akers Street and Avenue 320, Visalia, Tulare County, California.
Potential Hazards:	Soil containing OCPs, metals, and TPH.
Area of Interest:	Surface soil at the Project Site.
Surrounding Land Use:	Agriculture.
Topography:	Relatively flat.
Weather Conditions:	Expected temperatures 70-80 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
- Soil samples will be submitted to a certified analytical laboratory to be chemically analyzed for the presence of OCPs, metals, and TPH.

AGENCY REPRESENTATIVES

Name:	Elizabeth 'Liz' 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
Metals in soil	Ingestion, inhalation, and dermal contact	Unknown
TPH in soil	Ingestion, inhalation, and dermal contact	Unknown

Notes:

OCP organochlorine pesticides
TPH total petroleum hydrocarbons

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. Precautions 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. Most of the work 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 subsurface 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 in July 2025. Therefore, the potential for employee exposure to heat stress hazards during field activities is considered high.

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 16 acres of agricultural land. Therefore, the potential for exposure to traffic hazards is considered low.

Biological Hazards. The Project Site consists of vacant land with weeds, therefore there is 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 x419.

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.

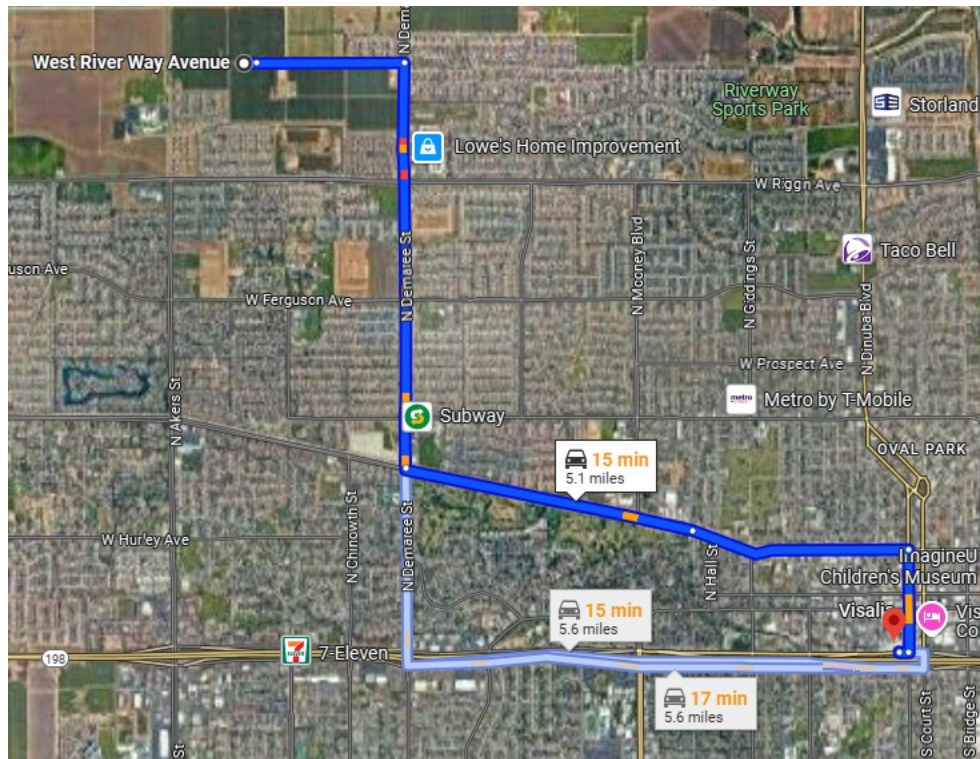
ROUTE TO HOSPITAL

Directions

1. From the work area, head East on West River Way Avenue. (0.6 mi.);
2. Turn Right onto Demaree Street and head South. (1.7 mi.);
3. Turn Left onto West Goshen Avenue and head East. (1.3 mi.);
4. Continue East onto West Murray Avenue. (0.9 mi);
5. Turn Right onto South Locust Street and head South. (0.4mi);
6. Turn Right onto West Mineral King Avenue and head West. (226 ft); and
7. Turn Right into Kaweah Health Medical Center and follow signs for the Emergency Room.

Arrive: Kaweah Health: Emergency Room, 400 W Mineral King Ave., Visalia, Ca 93291

Drive Time: 5.1 miles in approximately 15 minutes.



APPENDIX D

DRILL HOLE LOGS

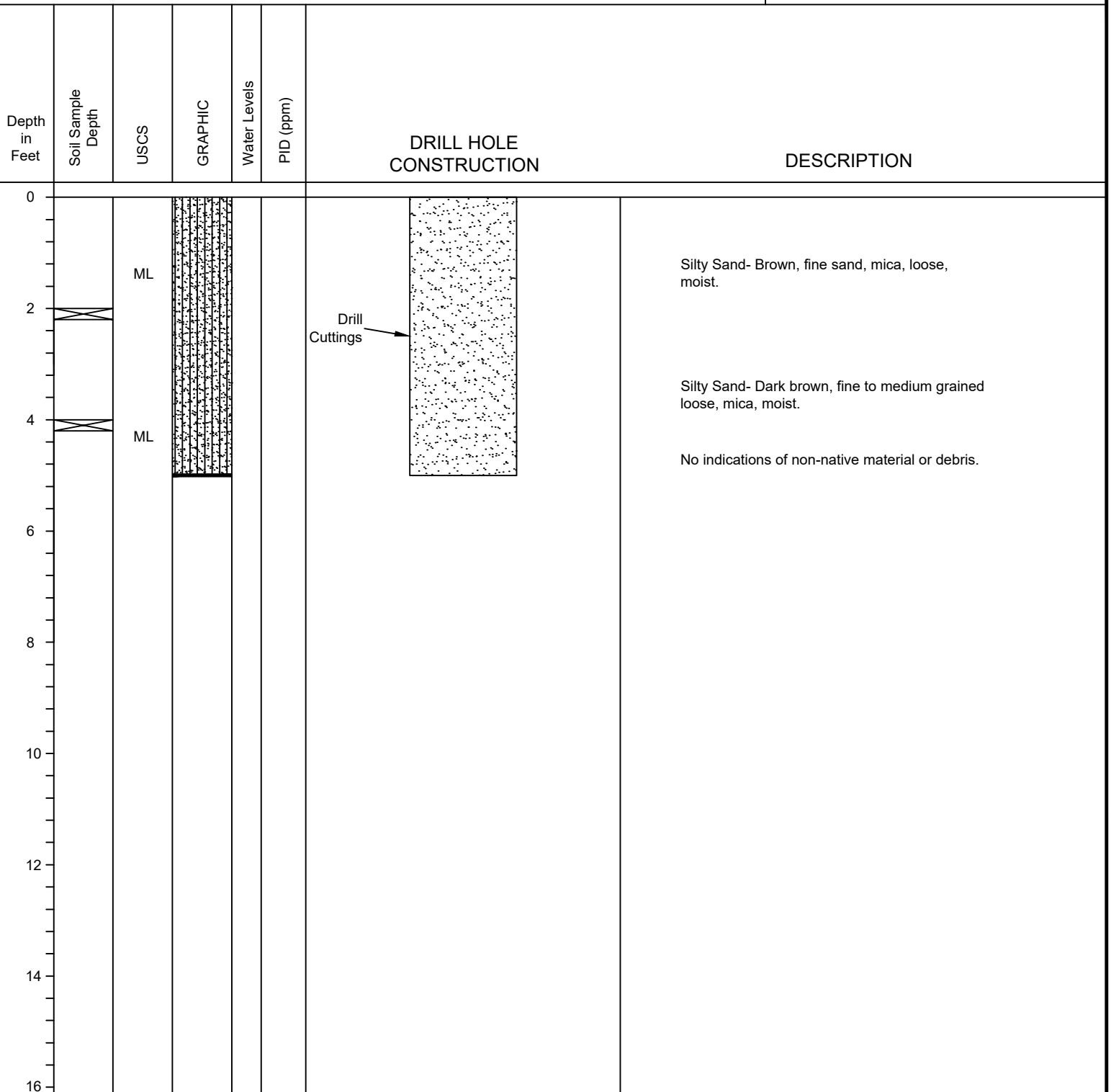
LOG OF DRILL HOLE DH-1

VISALIA USD

LOWREY RANCH / EAST

VISALIA, CA

Project Number	2401-4671	Drilling Method	:Hand Auger
Project Name	PEA	Boring Total Depth	:5 Feet
Logged By	:Alan Churchill, P.G.	Drilling Date/ Time	:7-15-25 / 1100-1108
Checked By	:N/A	Backfilled With	:Drill Cuttings
Driller	:Padre	Encountered GW Depth	:Not Encountered



Notes:

-  Sample collection
-  First encountered groundwater
-  Static groundwater

padre
associates
ENGINEERS, GEOLOGISTS &
ENVIRONMENTAL SCIENTISTS

LOG OF DRILL HOLE DH-2

VISALIA USD

LOWREY RANCH / EAST

VISALIA, CA

Project Number	2401-4671	Drilling Method	:Hand Auger
Project Name	PEA	Boring Total Depth	:5 Feet
Logged By	:Alan Churchill, P.G.	Drilling Date/ Time	:7-15-25 / 1110-1120
Checked By	:N/A	Backfilled With	:Drill Cuttings
Driller	:Padre	Encountered GW Depth	:Not Encountered

Depth in Feet	Soil Sample Depth	USCS	GRAPHIC	Water Levels	PID (ppm)	DRILL HOLE CONSTRUCTION	DESCRIPTION
0							
2		ML					Sandy Silt- Light brown, fine sand, loose, dry.
4		ML					Silty Sand- Brown, fine sand, mica, moist.
6							No indications of non-native material or debris.
8							
10							
12							
14							
16							

Notes:

-  Sample collection
-  First encountered groundwater
-  Static groundwater

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associates
ENGINEERS, GEOLOGISTS &
ENVIRONMENTAL SCIENTISTS

LOG OF DRILL HOLE DH-3

VISALIA USD

LOWREY RANCH / EAST

VISALIA, CA

Project Number	2401-4671	Drilling Method	:Hand Auger
Project Name	PEA	Boring Total Depth	:5 Feet
Logged By	:Alan Churchill, P.G.	Drilling Date/ Time	:7-15-25 / 1123 - 1135
Checked By	:N/A	Backfilled With	:Drill Cuttings
Driller	:Padre	Encountered GW Depth	:Not Encountered

Depth in Feet	Soil Sample Depth	USCS	GRAPHIC	Water Levels	PID (ppm)	DRILL HOLE CONSTRUCTION	DESCRIPTION
0							
2		ML					Sandy Silt- Light brown, fine sand, loose, dry.
4		ML					Silty Sand- Brown, fine sand, mica, moist.
6							No indications of non-native material or debris.
8							
10							
12							
14							
16							

Notes:



Sample collection



First encountered groundwater



Static groundwater

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ENVIRONMENTAL SCIENTISTS

APPENDIX E
LABORATORY ANALYTICAL REPORTS



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

enthalpy.com

Lab Job Number : 537716
Report Level : II
Report Date : 07/24/2025

Analytical Report *prepared for:*

Alan Klein
Padre Associates, Inc.
350 University Avenue
Suite 250
Sacramento, CA 95825

Project: 2401-4671 - VUSD - LOWREY RANCH (EAST)

Authorized for release by:

Miguel Gamboa, Project Manager
miguel.gamboa@enthalpy.com

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

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

Sample Summary

Alan Klein Padre Associates, Inc. 350 University Avenue Suite 250 Sacramento, CA 95825	Lab Job #: 537716 Project No: 2401-4671 Location: VUSD - LOWREY RANCH (EAST) Date Received: 07/16/25
---	---

Sample ID	Lab ID	Collected	Matrix
SS-1 (SURF)	537716-001	07/15/25 08:49	Soil
SS-2 (SURF)	537716-002	07/15/25 08:27	Soil
SS-3 (SURF)	537716-003	07/15/25 08:07	Soil
SS-4 (SURF)	537716-004	07/15/25 08:43	Soil
SS-5 (SURF)	537716-005	07/15/25 08:20	Soil
SS-6 (SURF)	537716-006	07/15/25 07:59	Soil
SS-7 (SURF)	537716-007	07/15/25 08:36	Soil
SS-8 (SURF)	537716-008	07/15/25 08:14	Soil
SS-9 (SURF)	537716-009	07/15/25 07:54	Soil
FB #1	537716-010	07/15/25 12:10	Water
SS-10 (SURF)	537716-011	07/15/25 08:32	Soil
SS-11 (SURF)	537716-012	07/15/25 08:10	Soil
SS-12 (SURF)	537716-013	07/15/25 07:45	Soil
DH-1 (2')	537716-014	07/15/25 11:00	Soil
DH-1 (4')	537716-015	07/15/25 11:05	Soil
DH-2 (2')	537716-016	07/15/25 11:12	Soil
DH-2 (4')	537716-017	07/15/25 11:18	Soil
DH-3 (2')	537716-018	07/15/25 11:26	Soil
DH-3 (4')	537716-019	07/15/25 11:32	Soil
EB #1	537716-020	07/15/25 12:15	Water
AG-1 (SURF)	537716-021	07/15/25 09:17	Soil
AG-2 (SURF)	537716-022	07/15/25 09:19	Soil
AG-3 (SURF)	537716-023	07/15/25 10:18	Soil
AG-4 (SURF)	537716-024	07/15/25 09:54	Soil
AG-5 (SURF)	537716-025	07/15/25 09:32	Soil
AG-6 (SURF)	537716-026	07/15/25 09:30	Soil

Sample Summary

Alan Klein Padre Associates, Inc. 350 University Avenue Suite 250 Sacramento, CA 95825	Lab Job #: 537716 Project No: 2401-4671 Location: VUSD - LOWREY RANCH (EAST) Date Received: 07/16/25
---	---

Sample ID	Lab ID	Collected	Matrix
AG-7 (SURF)	537716-027	07/15/25 10:22	Soil
AG-8 (SURF)	537716-028	07/15/25 09:58	Soil
AG-9 (SURF)	537716-029	07/15/25 09:35	Soil
AG-10 (SURF)	537716-030	07/15/25 09:34	Soil
AG-11 (SURF)	537716-031	07/15/25 10:35	Soil
AG-12 (SURF)	537716-032	07/15/25 10:10	Soil
AG-13 (SURF)	537716-033	07/15/25 09:52	Soil
AG-14 (SURF)	537716-034	07/15/25 10:24	Soil
AG-15 (SURF)	537716-035	07/15/25 10:40	Soil
AG-16 (SURF)	537716-036	07/15/25 10:14	Soil
AG-17 (SURF)	537716-037	07/15/25 09:57	Soil
AG-18 (SURF)	537716-038	07/15/25 10:31	Soil
AG-19 (SURF)	537716-039	07/15/25 10:04	Soil
AG-20 (SURF)	537716-040	07/15/25 10:28	Soil
AG-21 (SURF)	537716-041	07/15/25 10:07	Soil
AG-22 (SURF)	537716-042	07/15/25 10:41	Soil
CS-1	537716-043	07/15/25 00:00	Soil
CS-2	537716-044	07/15/25 00:00	Soil
CS-3	537716-045	07/15/25 00:00	Soil
CS-4	537716-046	07/15/25 00:00	Soil
CS-5	537716-047	07/15/25 00:00	Soil
CS-6	537716-048	07/15/25 00:00	Soil
CS-7	537716-049	07/15/25 00:00	Soil
CS-8	537716-050	07/15/25 00:00	Soil
CS-9	537716-051	07/15/25 00:00	Soil
CS-10	537716-052	07/15/25 00:00	Soil

Sample Summary

Alan Klein
Padre Associates, Inc.
350 University Avenue
Suite 250
Sacramento, CA
95825

Lab Job #: 537716
Project No: 2401-4671
Location: VUSD - LOWREY RANCH (EAST)
Date Received: 07/16/25

Sample ID	Lab ID	Collected	Matrix
CS-7 DUPE	537716-053	07/15/25 00:00	Soil
CS-8 DUPE	537716-054	07/15/25 00:00	Soil
CS-9 DUPE	537716-055	07/15/25 00:00	Soil
AG-11 (SURF) DUPE	537716-056	07/15/25 00:00	Soil
CS-4 DUPE	537716-057	07/15/25 00:00	Soil
AG-21 (SURF) DUPE	537716-058	07/15/25 00:00	Soil

Case Narrative

Padre Associates, Inc.
350 University Avenue
Suite 250
Sacramento, CA 95825
Alan Klein

Lab Job Number: 537716
Project No: 2401-4671
Location: VUSD - LOWREY RANCH
(EAST)
Date Received: 07/16/25

This data package contains sample and QC results for twelve soil samples, six three-point soil composites, four four-point soil composites, and two water samples, requested for the above referenced project on 07/17/25. The samples were received cold and intact.

TPH-Purgeables and/or BTXE by GC (EPA 8015B):

No analytical problems were encountered.

TPH-Extractables by GC (EPA 8015M):

No analytical problems were encountered.

Pesticides (EPA 8081A):

- CS-10 (lab # 537716-052) was diluted due to the color of the sample extract.
- No other analytical problems were encountered.

Metals (EPA 6020 and EPA 7471A):

- Low recoveries were observed for antimony in the MS/MSD of CS-7 (lab # 537716-049); the LCS was within limits, and the associated RPD was within limits.
- No other analytical problems were encountered.

Metals (EPA 200.8):

No analytical problems were encountered.

ENTHALPY ANALYTICAL		Chain of Custody Record			Turn Around Time (rush by advanced notice only) *						
		Lab No: <u>537114</u> Page: <u>1</u> of <u>5</u>			Standard: <u> </u> 2 Day: <u> </u>		5 Day: <u> X </u> 1 Day: <u> </u>		3 Day: <u> </u> Custom TAT: <u> </u>		
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900				Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		Sample Receipt Temp: <u>13</u> <u>17.4</u> <u>3.7</u> (lab use only)	

CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments			
Company:		PADRE ASSOCIATES, INC.		Name:		VUSD - LOWREY RANCH (EAST)		Arsenic, Lead (200.8) OCPs (8081B) CAM 17 Metals TPH-g, -d, -mo (8015M) Login 53771E							
Report To:		ALAN KLEIN		Number:		2401-4671									
Email:		aklein@padreinc.com		P.O. #:											
Address:		350 UNIVERSITY AVE, #250		Address:		Visalia, CA									
		SACRAMENTO, CA 95825													
Phone:		916-947-4831		Global ID:											
Fax:				Sampled By:		AC/BS									

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Arsenic, Lead (200.8)	OCPs (8081B)	CAM 17 Metals	TPH-g, -d, -mo (8015M)	Comments
1 SS-1 (SURF)	07/15/25	849	S	2"X6" STEEL	ICE		X	X	X	
2 SS-2 (SURF)	07/15/25	827	S	2"X6" STEEL	ICE		X	X	X	COMP 3:1 CS-7 Split/run dupe on CS-7 for OCPs
3 SS-3 (SURF)	07/15/25	807	S	2"X6" STEEL	ICE		X	X	X	
4 SS-4 (SURF)	07/15/25	843	S	2"X6" STEEL	ICE		X	X	X	
5 SS-5 (SURF)	07/15/25	820	S	2"X6" STEEL	ICE		X	X	X	COMP 3:1 CS-8 Split/run dupe on CS-8 for CAM 17 Metals
6 SS-6 (SURF)	07/15/25	759	S	2"X6" STEEL	ICE		X	X	X	
7 SS-7 (SURF)	07/15/25	836	S	2"X6" STEEL	ICE		X	X	X	COMP 3:1 CS-9 Split/run dupe on CS-9 for TPH-g, -d, -mo
8 SS-8 (SURF)	07/15/25	814	S	2"X6" STEEL	ICE		X	X	X	
9 SS-9 (SURF)	07/15/25	754	S	2"X6" STEEL	ICE		X	X	X	
10 FB #1	07/15/25	1210	W	250 mL POLY	3, ICE	X				

	Signature	Print Name	Company / Title	Date / Time
¹ Relinquished By:		ALAN CHURCHILL	PADRE / SR. GEOLOGIST	7-16-25 / 1050
¹ Received By:		Brenda Hamilton	EA / SCM	7-16-25 / 1050
² Relinquished By:		Brenda Hamilton	EA / SCM	7-16-25 / 1800
² Received By:		JKR	EA	7-17-25 / 1112
³ Relinquished By:				
³ Received By:				

ENTHALPY ANALYTICAL		Chain of Custody Record			Turn Around Time (rush by advanced notice only)							
		Lab No: <u>537714</u>	Standard:	5 Day: <u>X</u>	3 Day:							
Page: <u>2</u> of <u>5</u>		2 Day:	1 Day:	Custom TAT:								
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other			Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other			Sample Receipt Temp: (lab use only)				
CUSTOMER INFORMATION		PROJECT INFORMATION				Analysis Request				Test Instructions / Comments		
Company:	PADRE ASSOCIATES, INC.	Name:	VUSD - LOWREY RANCH (EAST)			Arsenic, Lead (200.8) OCPs (8081B) CAM 17 Metals TPH-g, -d, -mo (8015M)						
Report To:	ALAN KLEIN	Number:	2401-4671									
Email:	aklein@padreinc.com	P.O. #:										
Address:	350 UNIVERSITY AVE, #250	Address:	Visalia, CA									
	SACRAMENTO, CA 95825											
Phone:	916-947-4831	Global ID:										
Fax:		Sampled By:	AC/BS									
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.						
1	SS-10 (SURF)	07/15/25	832	S	2"X6" STEEL	ICE	X	X	X			
2	SS-11 (SURF)	07/15/25	810	S	2"X6" STEEL	ICE	X	X	X	} COMP 3:1 CS-10		
3	SS-12 (SURF)	07/15/25	745	S	2"X6" STEEL	ICE	X	X	X			
4	DH-1 (2')	07/15/25	1100	S	2"X6" STEEL	ICE	X	X	X			
5	DH-1 (4')	07/15/25	1105	S	2"X6" STEEL	ICE	X	X	X			
6	DH-2 (2')	07/15/25	1112	S	2"X6" STEEL	ICE	X	X	X			
7	DH-2 (4')	07/15/25	1118	S	2"X6" STEEL	ICE	X	X	X			
8	DH-3 (2')	07/15/25	1126	S	2"X6" STEEL	ICE	X	X	X			
9	DH-3 (4')	07/15/25	1132	S	2"X6" STEEL	ICE	X	X	X			
10	EB #1	07/15/25	1215	W	250 mL POLY	3, ICE	X					
		Signature		Print Name		Company / Title		Date / Time				
1 Relinquished By:				ALAN CHURCHILL		PADRE / SR. GEOLOGIST		7-16-25 1050				
1 Received By:				Brenda Hamilton		EA / SEM		7-16-25 1050				
2 Relinquished By:				Brenda Hamilton		EA / SEM		7-16-25 1800				
2 Received By:				JXR		EA		7-17-25 1112				
3 Relinquished By:												
3 Received By:												

ENTHALPY ANALYTICAL		Chain of Custody Record			Turn Around Time (rush by advanced notice only)									
		Lab No: <u>537716</u>	Standard:		5 Day:	X	3 Day:							
Page: 3 of 5		2 Day:	1 Day:	Custom TAT:										
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		Sample Receipt Temp: (lab use only)						
CUSTOMER INFORMATION			PROJECT INFORMATION			Analysis Request				Test Instructions / Comments				
Company:	PADRE ASSOCIATES, INC.		Name:	VUSD - LOWREY RANCH (EAST)		Arsenic, Lead (6020) OCPs (8081B)								
Report To:	ALAN KLEIN		Number:	2401-4671										
Email:	aklein@padreinc.com		P.O. #:											
Address:	350 UNIVERSITY AVE, #250		Address:	Visalia, CA										
	SACRAMENTO, CA 95825													
Phone:	916-947-4831		Global ID:											
Fax:			Sampled By:	AC/BS										
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.								
1	AG-1 (SURF)	07/15/25	917	S	2"X6" STEEL	ICE	X	X						
2	AG-2 (SURF)	07/15/25	919	S	2"X6" STEEL	ICE		X						
3	AG-3 (SURF)	07/15/25	1018	S	2"X6" STEEL	ICE		X						
4	AG-4 (SURF)	07/15/25	954	S	2"X6" STEEL	ICE		X						
5	AG-5 (SURF)	07/15/25	932	S	2"X6" STEEL	ICE		X						
6	AG-6 (SURF)	07/15/25	930	S	2"X6" STEEL	ICE	X	X						
7	AG-7 (SURF)	07/15/25	1022	S	2"X6" STEEL	ICE		X						
8	AG-8 (SURF)	07/15/25	958	S	2"X6" STEEL	ICE		X						
9														
10														
		Signature		Print Name		Company / Title		Date / Time						
1 Relinquished By:				ALAN CHURCHILL		PADRE/SR. GEOLOGIST		7-16-25 / 1050						
1 Received By:				Brenda Hamilton		EA / SCIN		7-16-25 / 1050						
2 Relinquished By:				Brenda Hamilton		EA / SCIN		7-16-25 / 1800						
2 Received By:				JXR		EA		7-17-25 / 1112						
3 Relinquished By:														
3 Received By:														



Turn Around Time (rush by advanced notice only)

537714

3 Day:

5

1 Day:

Custom TAT:

Sample Receipt Temp:

(lab use only)

4 = H₂SO₄ 5 = NaOH 6 = Other

(lab use only)

Phone 714-771-6900

Test Instructions / Comments

Sampled By:	AC/BS
-------------	-------

OCPs (8081B)

X

X

X

X

X

X

X

X

1

1

7-16-25 1150

746-25	1050
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7-16-25 180

7-17-25 1112

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ENTHALPY ANALYTICAL		Chain of Custody Record				Turn Around Time (rush by advanced notice only)								
		Lab No: 537716 Page: 5 of 5				Standard: 5 Day: X 3 Day: 2 Day: 1 Day: Custom TAT: 		5 Day: 3 Day: 1 Day: Custom TAT: 						
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900				Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other				Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other				Sample Receipt Temp: (lab use only)		
CUSTOMER INFORMATION				PROJECT INFORMATION				Analysis Request				Test Instructions / Comments		
Company:		PADRE ASSOCIATES, INC.		Name:		VUSD - LOWREY RANCH (EAST)		Arsenic, Lead (6020) OCPs (8081B)						
Report To:		ALAN KLEIN		Number:		2401-4671								
Email:		aklein@padreinc.com		P.O. #:										
Address:		350 UNIVERSITY AVE, #250		Address:		Visalia, CA								
		SACRAMENTO, CA 95825												
Phone:		916-947-4831		Global ID:										
Fax:				Sampled By:		AC/BS								
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.								
1	AG-17 (SURF)	07/15/25	957	S	2"X6" STEEL	ICE	X	X	} COMP 3:1 CS-5					
2	AG-18 (SURF)	07/15/25	1031	S	2"X6" STEEL	ICE		X						
3	AG-19 (SURF)	07/15/25	1004	S	2"X6" STEEL	ICE		X						
4	AG-20 (SURF)	07/15/25	1028	S	2"X6" STEEL	ICE		X	} COMP 3:1 CS-6					
5	AG-21 (SURF)	07/15/25	1007	S	2"X6" STEEL	ICE	X	X						
6	AG-22(SURF)	07/15/25	1041	S	2"X6" STEEL	ICE		X						
7														
8														
9														
10														
		Signature		Print Name		Company / Title		Date / Time						
1 Relinquished By:				ALAN CHURCHILL 		PADRE / SR. GEOLOGIST 		7-16-25 / 1050						
1 Received By:														
2 Relinquished By:				Brenda Hamer 		EA / SCM 		7-16-25 / 1050						
2 Received By:														
3 Relinquished By:				JXR		EA		7-17-25 / 1112						
3 Received By:														

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 7/16/25 WO# 537716 Client: Padre

Section 2: Shipping / Custody

Are custody seals present? ☐ Yes ☒ No

Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

☐ Courier ☒ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 7/16/25 By (initials) dk Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None

☒ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IRON CF: -0.3°C

Cooler Temp (°C) #1: 3.8 / 3.5 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

☒ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples

☒ No air samples submitted (skip 3c)

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	☒		
2) Is the sampler's name present on the CoC?	☒		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	☒		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	☒		
5) Were all of, and only, the correct samples received?	☒		
6) Are sample labels present, legible, and in agreement with the CoC?	☒		
7) Does the container count match the CoC?	☒		
8) Was sufficient sample volume / mass received for the analyses requested?	☒		
9) Were samples received in proper containers for the analyses requested?	☒		
10) Were samples received with > 1/2 holding time remaining?	☒		
11) Are samples properly preserved as indicated by CoC / labels?	☒		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			☒
13) Are VOA vials free from headspace/bubbles > 6mm?			☒

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ No additional discrepancies

Date Logged 7/16/25 By (print) Brenda Hamilton (sign) Brenda Hamilton
 Date Labeled 7/16/25 By (print) Angela Smith (sign) Angela Smith

ea
ENTHALPY

Date Received: 7/17/25 WO# 537716 Client: PADRE

Are custody seals present? ☒ Yes ☐ No

☐ Courier ☐ Walk-In ☐ Field Sampling ☒ Shipping Info: SW

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: 13 CF: +0.0

Cooler Temp (°C) #1: 1.7 / 1.7 #2: 3.7 / 3.7 #3: / #4: / #5: / #6: /

☐ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

☐ No air samples submitted (skip 3c)☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other

YES	NO	N/A
-----	----	-----

1) Were custody papers present, filled properly, and legible?

2) Is the sampler's name present on the CoC?

3) Were containers received in good condition (unbroken / unopened / uncompromised)?

4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)

5) Were all of, and only, the correct samples received?

6) Are sample labels present, legible, and in agreement with the CoC?

7) Does the container count match the CoC?

8) Was sufficient sample volume / mass received for the analyses requested?

9) Were samples received in proper containers for the analyses requested?

10) Were samples received with $> 1/2$ holding time remaining?

11) Are samples properly preserved as indicated by CoC / labels?

12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?

13) Are VOA vials free from headspace/bubbles > 6mm?

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

☐ No additional discrepancies

Date Logged 7/16/25 By (print) SAC (sign) _____

Date Labeled 7/47/25 By (print) SAC (sign) _____

SOUTHWEST AIRLINES

Printed on:
16 JUL 18:28

526 SMF 3034 1636



SNA

PC#	DG	LOT WT
2 OF 3	G	175 LB (79.4 KG)

SMF WN 4582 16 JUL 20:05

STN FLT DATE ETD LOT 01



PC ID: 0002
PC WT: 58LB

NFG

526 30341636 0002

SOUTHWEST AIRLINES

Printed on:
16 JUL 18:28

526 SMF 3034 1636



SNA

PC#
3
OF

DG
3
G

LOT WT
175 LB
(79.4 KG)

SMF WN 4582 16 JUL 20:05

STN FLT DATE ETD LOT 01



PC ID: 0003
PC WT: 58LB

526 30341636 0003

NFG

Total Volatile Hydrocarbons

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (2')	DF: 0.9843	Prep: EPA 5030B	
Type: SAMPLE	Batch#: 377026	Analysis: EPA 8015B	
Lab ID: 537716-014	Sampled: 07/15/25	Analyst: SXR	
Matrix: Soil	Received: 07/16/25		
Basis: as received	Analyzed: 07/22/25		
537716-014 Analyte		Result	RL Units
TPH Gasoline		ND	3.0 mg/Kg
537716-014 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		94	59-122
Field ID: DH-1 (4')		DF: 1.012	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377026	Analysis: EPA 8015B
Lab ID: 537716-015		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-015 Analyte		Result	RL Units
TPH Gasoline		ND	3.0 mg/Kg
537716-015 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		76	59-122
Field ID: DH-2 (2')		DF: 1.022	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377026	Analysis: EPA 8015B
Lab ID: 537716-016		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-016 Analyte		Result	RL Units
TPH Gasoline		ND	3.1 mg/Kg
537716-016 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		75	59-122
Field ID: DH-2 (4')		DF: 0.9881	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377026	Analysis: EPA 8015B
Lab ID: 537716-017		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-017 Analyte		Result	RL Units
TPH Gasoline		ND	3.0 mg/Kg
537716-017 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		87	59-122

Total Volatile Hydrocarbons

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-3 (2')	DF: 1.014	Prep: EPA 5030B	
Type: SAMPLE	Batch#: 377026	Analysis: EPA 8015B	
Lab ID: 537716-018	Sampled: 07/15/25	Analyst: SXR	
Matrix: Soil	Received: 07/16/25		
Basis: as received	Analyzed: 07/22/25		
537716-018 Analyte		Result	RL
TPH Gasoline		ND	3.0
			mg/Kg
537716-018 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		79	59-122
Field ID: DH-3 (4')		DF: 1.031	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377026	Analysis: EPA 8015B
Lab ID: 537716-019		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-019 Analyte		Result	RL
TPH Gasoline		ND	3.1
			mg/Kg
537716-019 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		82	59-122
Field ID: CS-7		DF: 1.020	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377037	Analysis: EPA 8015B
Lab ID: 537716-049		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-049 Analyte		Result	RL
TPH Gasoline		ND	3.1
			mg/Kg
537716-049 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		108	59-122
Field ID: CS-8		DF: 1.004	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377037	Analysis: EPA 8015B
Lab ID: 537716-050		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-050 Analyte		Result	RL
TPH Gasoline		ND	3.0
			mg/Kg
537716-050 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		103	59-122

Total Volatile Hydrocarbons

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-9	DF: 1.031	Prep: EPA 5030B	
Type: SAMPLE	Batch#: 377037	Analysis: EPA 8015B	
Lab ID: 537716-051	Sampled: 07/15/25	Analyst: SXR	
Matrix: Soil	Received: 07/16/25		
Basis: as received	Analyzed: 07/22/25		
537716-051 Analyte		Result	RL
TPH Gasoline		ND	3.1
			mg/Kg
537716-051 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		102	59-122
Field ID: CS-10		DF: 1.025	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377037	Analysis: EPA 8015B
Lab ID: 537716-052		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-052 Analyte		Result	RL
TPH Gasoline		ND	3.1
			mg/Kg
537716-052 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		102	59-122
Field ID: CS-9 DUPE		DF: 0.9728	Prep: EPA 5030B
Type: SAMPLE		Batch#: 377037	Analysis: EPA 8015B
Lab ID: 537716-055		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	
Basis: as received		Analyzed: 07/22/25	
537716-055 Analyte		Result	RL
TPH Gasoline		ND	2.9
			mg/Kg
537716-055 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		102	59-122
Type: BLANK		DF: 25.00	Prep: EPA 5030B
Lab ID: QC1276528		Batch#: 377026	Analysis: EPA 8015B
Matrix: Soil		Analyzed: 07/22/25	Analyst: SXR
QC1276528 Analyte		Result	RL
TPH Gasoline		ND	75
			mg/Kg
QC1276528 Surrogate		%REC	Limits
Bromofluorobenzene (FID)		87	59-122

Total Volatile Hydrocarbons

Lab #: 537716	Project#: 2401-4671
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)

Type: BLANK	DF: 1.000	Prep: EPA 5030B
Lab ID: QC1276529	Batch#: 377026	Analysis: EPA 8015B
Matrix: Soil	Analyzed: 07/22/25	Analyst: SXR

QC1276529 Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
QC1276529 Surrogate	%REC		Limits
Bromofluorobenzene (FID)	90		59-122

Type: BLANK	DF: 25.00	Prep: EPA 5030B
Lab ID: QC1276562	Batch#: 377037	Analysis: EPA 8015B
Matrix: Soil	Analyzed: 07/22/25	Analyst: SXR

QC1276562 Analyte	Result	RL	Units
TPH Gasoline	ND	75	mg/Kg
QC1276562 Surrogate	%REC		Limits
Bromofluorobenzene (FID)	104		59-122

Type: BLANK	DF: 1.000	Prep: EPA 5030B
Lab ID: QC1276563	Batch#: 377037	Analysis: EPA 8015B
Matrix: Soil	Analyzed: 07/22/25	Analyst: SXR

QC1276563 Analyte	Result	RL	Units
TPH Gasoline	ND	3.0	mg/Kg
QC1276563 Surrogate	%REC		Limits
Bromofluorobenzene (FID)	104		59-122

Legend

ND: Not Detected

RL: Reporting Limit

Total Volatile Hydrocarbons: Batch QC

Lab #: 537716		Project#: 2401-4671			
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)			
Type: LCS		DF: 1.000		Prep: EPA 5030B	
Lab ID: QC1276525		Batch#: 377026		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 07/22/25		Analyst: SXR	
QC1276525 Analyte		Spiked	Result	%REC	Limits
TPH Gasoline		5.000	5.451	109	80-124 mg/Kg
QC1276525 Surrogate				%REC	Limits
Bromofluorobenzene (FID)				98	59-122

Total Volatile Hydrocarbons: Batch QC

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: <u>ZZZZZZZZZZ</u>		Basis: as received	Analyzed: 07/22/25
Type: MS		DF: 1.016	Prep: EPA 5030B
MSS Lab ID: 537764-002		Batch#: 377026	Analysis: EPA 8015B
Lab ID: QC1276526		Sampled: 07/15/25	Analyst: SXR
Matrix: Soil		Received: 07/16/25	

QC1276526 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<0.1666	5.081	5.739	113	74-126	mg/Kg

QC1276526 Surrogate	%REC	Limits
Bromofluorobenzene (FID)	97	59-122

Field ID: ZZZZZZZZZZ	Basis: as received	Analyzed: 07/22/25
Type: MSD	DF: 0.9901	Prep: EPA 5030B
MSS Lab ID: 537764-002	Batch#: 377026	Analysis: EPA 8015B
Lab ID: QC1276527	Sampled: 07/15/25	Analyst: SXR
Matrix: Soil	Received: 07/16/25	

QC1276527 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	4.950	5.361	108	74-126	mg/Kg	4	24

QC1276527 Surrogate	%REC	Limits
Bromofluorobenzene (FID)	102	59-122

Legend
RPD: Relative Percent
Difference

Total Volatile Hydrocarbons: Batch QC

Lab #: 537716		Project#: 2401-4671			
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)			
Type: LCS		DF: 1.000		Prep: EPA 5030B	
Lab ID: QC1276559		Batch#: 377037		Analysis: EPA 8015B	
Matrix: Soil		Analyzed: 07/22/25		Analyst: SXR	
QC1276559 Analyte		Spiked	Result	%REC	Limits
TPH Gasoline		5.000	6.130	123	80-124 mg/Kg
QC1276559 Surrogate				%REC	Limits
Bromofluorobenzene (FID)				109	59-122

Total Volatile Hydrocarbons: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-8	Basis: as received	Analyzed: 07/22/25
Type: MS	DF: 1.012	Prep: EPA 5030B
MSS Lab ID: 537716-050	Batch#: 377037	Analysis: EPA 8015B
Lab ID: QC1276560	Sampled: 07/15/25	Analyst: SXR
Matrix: Soil	Received: 07/16/25	

QC1276560 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
TPH Gasoline	<0.08114	5.061	5.586	110	74-126	mg/Kg

QC1276560 Surrogate	%REC	Limits
Bromofluorobenzene (FID)	110	59-122

Field ID: CS-8	Basis: as received	Analyzed: 07/22/25
Type: MSD	DF: 1.020	Prep: EPA 5030B
MSS Lab ID: 537716-050	Batch#: 377037	Analysis: EPA 8015B
Lab ID: QC1276561	Sampled: 07/15/25	Analyst: SXR
Matrix: Soil	Received: 07/16/25	

QC1276561 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
TPH Gasoline	5.102	5.417	106	74-126	mg/Kg	4	24

QC1276561 Surrogate	%REC	Limits
Bromofluorobenzene (FID)	108	59-122

Legend
RPD: Relative Percent
Difference

Extractable Carbon Chain

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (2')	DF: 0.9926	Analyzed: 07/20/25	
Type: SAMPLE	Batch#: 376872	Prep: EPA 3580M	
Lab ID: 537716-014	Sampled: 07/15/25	Analysis: EPA 8015M	
Matrix: Soil	Received: 07/16/25	Analyst: NXY	
Basis: as received	Prepared: 07/20/25		
537716-014 Analyte		Result	RL Units
DRO C10-C28		ND	9.9 mg/Kg
ORO C28-C44		ND	20 mg/Kg
537716-014 Surrogate		%REC	Limits
n-Triacontane		84	59-136
Field ID: DH-1 (4')		DF: 1.000	Analyzed: 07/20/25
Type: SAMPLE		Batch#: 376872	Prep: EPA 3580M
Lab ID: 537716-015		Sampled: 07/15/25	Analysis: EPA 8015M
Matrix: Soil		Received: 07/16/25	Analyst: DIB
Basis: as received		Prepared: 07/20/25	
537716-015 Analyte		Result	RL Units
DRO C10-C28		ND	10 mg/Kg
ORO C28-C44		ND	20 mg/Kg
537716-015 Surrogate		%REC	Limits
n-Triacontane		78	59-136
Field ID: DH-2 (2')		DF: 0.9965	Analyzed: 07/20/25
Type: SAMPLE		Batch#: 376872	Prep: EPA 3580M
Lab ID: 537716-016		Sampled: 07/15/25	Analysis: EPA 8015M
Matrix: Soil		Received: 07/16/25	Analyst: DIB
Basis: as received		Prepared: 07/20/25	
537716-016 Analyte		Result	RL Units
DRO C10-C28		ND	10 mg/Kg
ORO C28-C44		ND	20 mg/Kg
537716-016 Surrogate		%REC	Limits
n-Triacontane		79	59-136
Field ID: DH-2 (4')		DF: 0.9980	Analyzed: 07/20/25
Type: SAMPLE		Batch#: 376872	Prep: EPA 3580M
Lab ID: 537716-017		Sampled: 07/15/25	Analysis: EPA 8015M
Matrix: Soil		Received: 07/16/25	Analyst: DIB
Basis: as received		Prepared: 07/20/25	
537716-017 Analyte		Result	RL Units
DRO C10-C28		ND	10 mg/Kg
ORO C28-C44		ND	20 mg/Kg
537716-017 Surrogate		%REC	Limits
n-Triacontane		77	59-136

Extractable Carbon Chain

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-3 (2')

DF: 0.9935

Analyzed: 07/20/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-018

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: DIB

Basis: as received

Prepared: 07/20/25

537716-018 Analyte

	Result	RL	Units
DRO C10-C28	ND	9.9	mg/Kg
ORO C28-C44	ND	20	mg/Kg

537716-018 Surrogate

	%REC	Limits
n-Triacontane	84	59-136

Field ID: DH-3 (4')

DF: 0.9916

Analyzed: 07/20/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-019

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-019 Analyte

	Result	RL	Units
DRO C10-C28	ND	9.9	mg/Kg
ORO C28-C44	ND	20	mg/Kg

537716-019 Surrogate

	%REC	Limits
n-Triacontane	76	59-136

Field ID: CS-7

DF: 1.000

Analyzed: 07/20/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-049

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-049 Analyte

	Result	RL	Units
DRO C10-C28	ND	10	mg/Kg
ORO C28-C44	ND	20	mg/Kg

537716-049 Surrogate

	%REC	Limits
n-Triacontane	85	59-136

Field ID: CS-8

DF: 0.9935

Analyzed: 07/21/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-050

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-050 Analyte

	Result	RL	Units
DRO C10-C28	ND	9.9	mg/Kg
ORO C28-C44	ND	20	mg/Kg

537716-050 Surrogate

	%REC	Limits
n-Triacontane	76	59-136

Extractable Carbon Chain

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-9

DF: 0.9980

Analyzed: 07/21/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-051

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-051 Analyte	Result	RL	Units
DRO C10-C28	ND	10	mg/Kg
ORO C28-C44	ND	20	mg/Kg
537716-051 Surrogate	%REC	Limits	
n-Triacontane	85	59-136	

Field ID: CS-10

DF: 0.9921

Analyzed: 07/21/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-052

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-052 Analyte	Result	RL	Units
DRO C10-C28	23	9.9	mg/Kg
ORO C28-C44	52	20	mg/Kg
537716-052 Surrogate	%REC	Limits	
n-Triacontane	80	59-136	

Field ID: CS-9 DUPE

DF: 1.000

Analyzed: 07/21/25

Type: SAMPLE

Batch#: 376872

Prep: EPA 3580M

Lab ID: 537716-055

Sampled: 07/15/25

Analysis: EPA 8015M

Matrix: Soil

Received: 07/16/25

Analyst: NXY

Basis: as received

Prepared: 07/20/25

537716-055 Analyte	Result	RL	Units
DRO C10-C28	ND	10	mg/Kg
ORO C28-C44	ND	20	mg/Kg
537716-055 Surrogate	%REC	Limits	
n-Triacontane	83	59-136	

Type: BLANK

Batch#: 376872

Analysis: EPA 8015M

Lab ID: QC1275955

Prepared: 07/20/25

Analyst: NXY

Matrix: Soil

Analyzed: 07/20/25

DF: 0.9916

Prep: EPA 3580M

QC1275955 Analyte	Result	RL	Units
DRO C10-C28	ND	9.9	mg/Kg
ORO C28-C44	ND	20	mg/Kg
QC1275955 Surrogate	%REC	Limits	
n-Triacontane	74	59-136	

Legend

ND: Not Detected

RL: Reporting Limit

Extractable Carbon Chain: Batch QC

Lab #: 537716		Project#: 2401-4671			
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)			
Type: LCS		Batch#: 376872		Analysis: EPA 8015M	
Lab ID: QC1275956		Prepared: 07/20/25		Analyst: NXY	
Matrix: Soil		Analyzed: 07/20/25			
DF: 0.9955		Prep: EPA 3580M			
QC1275956 Analyte	Spiked	Result	%REC	Limits	Units
Diesel C10-C28	248.9	220.6	89	61-120	mg/Kg
QC1275956 Surrogate			%REC	Limits	
n-Triacontane			72	59-136	

Extractable Carbon Chain: Batch QC

Lab #: 537716			Project#: 2401-4671							
Client: Padre Associates, Inc.			Location: VUSD - LOWREY RANCH (EAST)							
Field ID: <u>ZZZZZZZZZZ</u>			Basis: as received			Prepared: 07/20/25				
Type: MS			DF: 19.92			Analyzed: 07/21/25				
MSS Lab ID: 537815-013			Batch#: 376872			Prep: EPA 3580M				
Lab ID: QC1275957			Sampled: 07/16/25			Analysis: EPA 8015M				
Matrix: Miscell.			Received: 07/16/25			Analyst: NXY				
QC1275957 Analyte			MSS Result	Spiked	Result	%REC	Limits	Units	Qual	
Diesel C10-C28			12,300	249.0	13,910	646	47-127	mg/Kg	NM	
QC1275957 Surrogate						%REC	Limits			
n-Triacontane						DO	59-136			
Field ID: <u>ZZZZZZZZZZ</u>			Basis: as received			Prepared: 07/20/25				
Type: MSD			DF: 19.91			Analyzed: 07/21/25				
MSS Lab ID: 537815-013			Batch#: 376872			Prep: EPA 3580M				
Lab ID: QC1275958			Sampled: 07/16/25			Analysis: EPA 8015M				
Matrix: Miscell.			Received: 07/16/25			Analyst: NXY				
QC1275958 Analyte			Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
Diesel C10-C28			248.9	14,190	760	47-127	mg/Kg	2	48	NM
QC1275958 Surrogate						%REC	Limits			
n-Triacontane						DO	59-136			
Legend										
DO: Diluted Out										
NM: Not Meaningful										
RPD: Relative Percent Difference										

Organochlorine Pesticides

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (2')	Batch#: 376949	Prep: EPA 3546	
Lab ID: 537716-014	Sampled: 07/15/25	Analysis: EPA 8081A	
Matrix: Soil	Received: 07/16/25	Analyst: MES	
Basis: as received	Prepared: 07/21/25		
DF: 1.000	Analyzed: 07/23/25		

537716-014 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg
537716-014 Surrogate	%REC	Limits	
TCMX	78	58-120	
Decachlorobiphenyl	91	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (4')	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-015	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.020	Analyzed: 07/23/25	

537716-015 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-015 Surrogate	%REC	Limits
TCMX	82	58-120
Decachlorobiphenyl	93	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-2 (2')	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-016	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/23/25	

537716-016 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg
537716-016 Surrogate	%REC	Limits	
TCMX	78	58-120	
Decachlorobiphenyl	92	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-2 (4')	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-017	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 0.9901	Analyzed: 07/23/25	

537716-017 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	9.9	ug/Kg
Toxaphene	ND	99	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

537716-017 Surrogate	%REC	Limits
TCMX	86	58-120
Decachlorobiphenyl	97	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-3 (2')	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-018	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.020	Analyzed: 07/23/25	

537716-018 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-018 Surrogate	%REC	Limits
TCMX	80	58-120
Decachlorobiphenyl	93	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-3 (4')	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-019	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.010	Analyzed: 07/23/25	

537716-019 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-019 Surrogate	%REC	Limits
TCMX	85	58-120
Decachlorobiphenyl	97	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-1	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-043	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/23/25	

537716-043 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg
537716-043 Surrogate	%REC	Limits	
TCMX	80	58-120	
Decachlorobiphenyl	90	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-2	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-044	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 0.9901	Analyzed: 07/23/25	

537716-044 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	9.9	ug/Kg
Toxaphene	ND	99	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

537716-044 Surrogate	%REC	Limits
TCMX	92	58-120
Decachlorobiphenyl	101	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-3	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-045	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.020	Analyzed: 07/23/25	

537716-045 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-045 Surrogate	%REC	Limits
TCMX	89	58-120
Decachlorobiphenyl	96	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-4	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-046	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 0.9804	Analyzed: 07/23/25	

537716-046 Analyte	Result	RL	Units
alpha-BHC	ND	4.9	ug/Kg
beta-BHC	ND	4.9	ug/Kg
gamma-BHC	ND	4.9	ug/Kg
delta-BHC	ND	4.9	ug/Kg
Heptachlor	ND	4.9	ug/Kg
Aldrin	ND	4.9	ug/Kg
Heptachlor epoxide	ND	4.9	ug/Kg
Endosulfan I	ND	4.9	ug/Kg
Dieldrin	ND	4.9	ug/Kg
4,4'-DDE	ND	4.9	ug/Kg
Endrin	ND	4.9	ug/Kg
Endosulfan II	ND	4.9	ug/Kg
Endosulfan sulfate	ND	4.9	ug/Kg
4,4'-DDD	ND	4.9	ug/Kg
Endrin aldehyde	ND	4.9	ug/Kg
Endrin ketone	ND	4.9	ug/Kg
4,4'-DDT	ND	4.9	ug/Kg
Methoxychlor	ND	9.8	ug/Kg
Toxaphene	ND	98	ug/Kg
Chlordane (Technical)	ND	49	ug/Kg
537716-046 Surrogate	%REC	Limits	
TCMX	87	58-120	
Decachlorobiphenyl	91	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-5	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-047	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/23/25	

537716-047 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

537716-047 Surrogate	%REC	Limits
TCMX	86	58-120
Decachlorobiphenyl	94	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-6	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-048	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 0.9804	Analyzed: 07/23/25	

537716-048 Analyte	Result	RL	Units
alpha-BHC	ND	4.9	ug/Kg
beta-BHC	ND	4.9	ug/Kg
gamma-BHC	ND	4.9	ug/Kg
delta-BHC	ND	4.9	ug/Kg
Heptachlor	ND	4.9	ug/Kg
Aldrin	ND	4.9	ug/Kg
Heptachlor epoxide	ND	4.9	ug/Kg
Endosulfan I	ND	4.9	ug/Kg
Dieldrin	ND	4.9	ug/Kg
4,4'-DDE	ND	4.9	ug/Kg
Endrin	ND	4.9	ug/Kg
Endosulfan II	ND	4.9	ug/Kg
Endosulfan sulfate	ND	4.9	ug/Kg
4,4'-DDD	ND	4.9	ug/Kg
Endrin aldehyde	ND	4.9	ug/Kg
Endrin ketone	ND	4.9	ug/Kg
4,4'-DDT	ND	4.9	ug/Kg
Methoxychlor	ND	9.8	ug/Kg
Toxaphene	ND	98	ug/Kg
Chlordane (Technical)	ND	49	ug/Kg

537716-048 Surrogate	%REC	Limits
TCMX	78	58-120
Decachlorobiphenyl	86	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-7	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-049	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/23/25	

537716-049 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg

537716-049 Surrogate	%REC	Limits
TCMX	75	58-120
Decachlorobiphenyl	84	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-8	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-050	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.010	Analyzed: 07/23/25	

537716-050 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-050 Surrogate	%REC	Limits
TCMX	79	58-120
Decachlorobiphenyl	84	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-9	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-051	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/23/25	

537716-051 Analyte	Result	RL	Units	Qual
alpha-BHC	ND	5.0	ug/Kg	
beta-BHC	ND	5.0	ug/Kg	
gamma-BHC	ND	5.0	ug/Kg	
delta-BHC	ND	5.0	ug/Kg	
Heptachlor	ND	5.0	ug/Kg	
Aldrin	ND	5.0	ug/Kg	
Heptachlor epoxide	ND	5.0	ug/Kg	
Endosulfan I	ND	5.0	ug/Kg	
Dieldrin	ND	5.0	ug/Kg	
4,4'-DDE	6.2	5.0	ug/Kg	#
Endrin	ND	5.0	ug/Kg	
Endosulfan II	ND	5.0	ug/Kg	
Endosulfan sulfate	ND	5.0	ug/Kg	
4,4'-DDD	ND	5.0	ug/Kg	
Endrin aldehyde	ND	5.0	ug/Kg	
Endrin ketone	ND	5.0	ug/Kg	
4,4'-DDT	ND	5.0	ug/Kg	
Methoxychlor	ND	10	ug/Kg	
Toxaphene	ND	100	ug/Kg	
Chlordane (Technical)	ND	50	ug/Kg	

537716-051 Surrogate	%REC	Limits
TCMX	84	58-120
Decachlorobiphenyl	92	47-120

Legend

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

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-10	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-052	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 5.051	Analyzed: 07/23/25	

537716-052 Analyte	Result	RL	Units
alpha-BHC	ND	25	ug/Kg
beta-BHC	ND	25	ug/Kg
gamma-BHC	ND	25	ug/Kg
delta-BHC	ND	25	ug/Kg
Heptachlor	ND	25	ug/Kg
Aldrin	ND	25	ug/Kg
Heptachlor epoxide	ND	25	ug/Kg
Endosulfan I	ND	25	ug/Kg
Dieldrin	ND	25	ug/Kg
4,4'-DDE	ND	25	ug/Kg
Endrin	ND	25	ug/Kg
Endosulfan II	ND	25	ug/Kg
Endosulfan sulfate	ND	25	ug/Kg
4,4'-DDD	ND	25	ug/Kg
Endrin aldehyde	ND	25	ug/Kg
Endrin ketone	ND	25	ug/Kg
4,4'-DDT	ND	25	ug/Kg
Methoxychlor	ND	51	ug/Kg
Toxaphene	ND	510	ug/Kg
Chlordane (Technical)	ND	250	ug/Kg
537716-052 Surrogate	%REC	Limits	
TCMX	81	58-120	
Decachlorobiphenyl	74	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-7 DUPE	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-053	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.020	Analyzed: 07/23/25	

537716-053 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

537716-053 Surrogate	%REC	Limits
TCMX	84	58-120
Decachlorobiphenyl	88	47-120

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-4 DUPE	Batch#: 376949	Prep: EPA 3546
Lab ID: 537716-057	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES
Basis: as received	Prepared: 07/21/25	
DF: 1.000	Analyzed: 07/24/25	

537716-057 Analyte	Result	RL	Units
alpha-BHC	ND	5.0	ug/Kg
beta-BHC	ND	5.0	ug/Kg
gamma-BHC	ND	5.0	ug/Kg
delta-BHC	ND	5.0	ug/Kg
Heptachlor	ND	5.0	ug/Kg
Aldrin	ND	5.0	ug/Kg
Heptachlor epoxide	ND	5.0	ug/Kg
Endosulfan I	ND	5.0	ug/Kg
Dieldrin	ND	5.0	ug/Kg
4,4'-DDE	ND	5.0	ug/Kg
Endrin	ND	5.0	ug/Kg
Endosulfan II	ND	5.0	ug/Kg
Endosulfan sulfate	ND	5.0	ug/Kg
4,4'-DDD	ND	5.0	ug/Kg
Endrin aldehyde	ND	5.0	ug/Kg
Endrin ketone	ND	5.0	ug/Kg
4,4'-DDT	ND	5.0	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	50	ug/Kg
537716-057 Surrogate	%REC	Limits	
TCMX	85	58-120	
Decachlorobiphenyl	89	47-120	

Legend

ND: Not Detected

RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Type: BLANK	Batch#: 376949	Analysis: EPA 8081A
Lab ID: QC1276260	Prepared: 07/21/25	Analyst: MES
Matrix: Soil	Analyzed: 07/23/25	
DF: 1.020	Prep: EPA 3546	

QC1276260 Analyte	Result	RL	Units
alpha-BHC	ND	5.1	ug/Kg
beta-BHC	ND	5.1	ug/Kg
gamma-BHC	ND	5.1	ug/Kg
delta-BHC	ND	5.1	ug/Kg
Heptachlor	ND	5.1	ug/Kg
Aldrin	ND	5.1	ug/Kg
Heptachlor epoxide	ND	5.1	ug/Kg
Endosulfan I	ND	5.1	ug/Kg
Dieldrin	ND	5.1	ug/Kg
4,4'-DDE	ND	5.1	ug/Kg
Endrin	ND	5.1	ug/Kg
Endosulfan II	ND	5.1	ug/Kg
Endosulfan sulfate	ND	5.1	ug/Kg
4,4'-DDD	ND	5.1	ug/Kg
Endrin aldehyde	ND	5.1	ug/Kg
Endrin ketone	ND	5.1	ug/Kg
4,4'-DDT	ND	5.1	ug/Kg
Methoxychlor	ND	10	ug/Kg
Toxaphene	ND	100	ug/Kg
Chlordane (Technical)	ND	51	ug/Kg

QC1276260 Surrogate	%REC	Limits
TCMX	77	58-120
Decachlorobiphenyl	82	47-120

Legend
ND: Not Detected
RL: Reporting Limit

Organochlorine Pesticides: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Type: LCS	Batch#: 376949	Analysis: EPA 8081A
Lab ID: QC1276261	Prepared: 07/21/25	Analyst: MES
Matrix: Soil	Analyzed: 07/23/25	
DF: 1.020	Prep: EPA 3546	

QC1276261 Analyte	Spiked	Result	%REC	Limits	Units	Qual
alpha-BHC	51.02	38.66	76	53-132	ug/Kg	#
beta-BHC	51.02	42.44	83	59-131	ug/Kg	
gamma-BHC	51.02	41.59	82	54-132	ug/Kg	#
delta-BHC	51.02	41.71	82	54-134	ug/Kg	#
Heptachlor	51.02	40.56	79	50-130	ug/Kg	#
Aldrin	51.02	38.05	75	46-120	ug/Kg	#
Heptachlor epoxide	51.02	38.85	76	52-127	ug/Kg	
Endosulfan I	51.02	41.12	81	53-132	ug/Kg	#
Dieldrin	51.02	41.47	81	53-134	ug/Kg	#
4,4'-DDE	51.02	42.87	84	53-140	ug/Kg	#
Endrin	51.02	46.52	91	53-142	ug/Kg	
Endosulfan II	51.02	45.85	90	53-138	ug/Kg	
Endosulfan sulfate	51.02	46.70	92	50-134	ug/Kg	
4,4'-DDD	51.02	40.48	79	50-136	ug/Kg	#
Endrin aldehyde	51.02	31.97	63	15-120	ug/Kg	
Endrin ketone	51.02	45.76	90	50-146	ug/Kg	
4,4'-DDT	51.02	44.98	88	46-142	ug/Kg	
Methoxychlor	51.02	50.44	99	48-156	ug/Kg	
QC1276261 Surrogate			%REC	Limits		
TCMX			78	58-120		
Decachlorobiphenyl			90	47-120		

Legend

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

Organochlorine Pesticides: Batch QC

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (4')	Basis: as received	Prepared: 07/21/25	
Type: MS	DF: 1.010	Analyzed: 07/23/25	
MSS Lab ID: 537716-015	Batch#: 376949	Prep: EPA 3546	
Lab ID: QC1276262	Sampled: 07/15/25	Analysis: EPA 8081A	
Matrix: Soil	Received: 07/16/25	Analyst: MES	

QC1276262 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units	Qual
alpha-BHC	<1.960	50.51	41.89	83	52-120	ug/Kg	#
beta-BHC	<2.241	50.51	45.06	89	57-126	ug/Kg	
gamma-BHC	<1.531	50.51	44.52	88	54-122	ug/Kg	#
delta-BHC	<1.925	50.51	45.18	89	44-127	ug/Kg	#
Heptachlor	<1.953	50.51	43.48	86	51-122	ug/Kg	#
Aldrin	<1.937	50.51	41.72	83	51-120	ug/Kg	#
Heptachlor epoxide	<1.877	50.51	42.84	85	50-122	ug/Kg	
Endosulfan I	<1.849	50.51	43.16	85	48-123	ug/Kg	#
Dieldrin	<2.414	50.51	44.57	88	48-128	ug/Kg	#
4,4'-DDE	<2.765	50.51	46.91	93	50-139	ug/Kg	#
Endrin	<2.280	50.51	50.68	100	53-132	ug/Kg	
Endosulfan II	<2.077	50.51	48.95	97	47-131	ug/Kg	
Endosulfan sulfate	<2.870	50.51	51.12	101	40-126	ug/Kg	
4,4'-DDD	<1.973	50.51	42.94	85	48-130	ug/Kg	#
Endrin aldehyde	<3.633	50.51	42.75	85	26-120	ug/Kg	
Endrin ketone	<2.244	50.51	49.48	98	51-133	ug/Kg	
4,4'-DDT	<1.985	50.51	49.51	98	40-144	ug/Kg	
Methoxychlor	<3.970	50.51	55.85	111	49-148	ug/Kg	

QC1276262 Surrogate	%REC	Limits
TCMX	85	58-120
Decachlorobiphenyl	95	47-120

Organochlorine Pesticides: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-1 (4')	Basis: as received	Prepared: 07/21/25
Type: MSD	DF: 1.010	Analyzed: 07/23/25
MSS Lab ID: 537716-015	Batch#: 376949	Prep: EPA 3546
Lab ID: QC1276263	Sampled: 07/15/25	Analysis: EPA 8081A
Matrix: Soil	Received: 07/16/25	Analyst: MES

QC1276263 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim	Qual
alpha-BHC	50.51	40.40	80	52-120	ug/Kg	4	37	#
beta-BHC	50.51	43.58	86	57-126	ug/Kg	3	38	
gamma-BHC	50.51	43.09	85	54-122	ug/Kg	3	39	#
delta-BHC	50.51	43.17	85	44-127	ug/Kg	5	54	#
Heptachlor	50.51	42.74	85	51-122	ug/Kg	2	44	#
Aldrin	50.51	39.72	79	51-120	ug/Kg	5	39	#
Heptachlor epoxide	50.51	41.72	83	50-122	ug/Kg	3	39	
Endosulfan I	50.51	42.34	84	48-123	ug/Kg	2	47	#
Dieldrin	50.51	43.09	85	48-128	ug/Kg	3	43	#
4,4'-DDE	50.51	45.25	90	50-139	ug/Kg	4	42	#
Endrin	50.51	48.22	95	53-132	ug/Kg	5	45	
Endosulfan II	50.51	46.35	92	47-131	ug/Kg	5	46	
Endosulfan sulfate	50.51	48.48	96	40-126	ug/Kg	5	52	
4,4'-DDD	50.51	40.76	81	48-130	ug/Kg	5	46	#
Endrin aldehyde	50.51	40.56	80	26-120	ug/Kg	5	57	
Endrin ketone	50.51	46.47	92	51-133	ug/Kg	6	43	
4,4'-DDT	50.51	47.23	94	40-144	ug/Kg	5	56	
Methoxychlor	50.51	53.60	106	49-148	ug/Kg	4	53	
QC1276263 Surrogate						%REC	Limits	
TCMX						84	58-120	
Decachlorobiphenyl						94	47-120	

Legend

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

RPD: Relative Percent Difference

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-1 (2')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-014

Basis: as received

Received: 07/16/25

537716-014 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	3.9	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	100	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.50	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	15	2.0	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.5	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	9.9	2.0	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	4.3	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.17	mg/Kg	1.200	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	9.8	2.0	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	4.0	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.50	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.99	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	41	2.0	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	40	9.9	mg/Kg	0.9901	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-1 (4')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-015

Basis: as received

Received: 07/16/25

537716-015 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	6.6	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	120	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.49	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	19	2.0	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	7.8	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	16	2.0	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	5.8	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.15	mg/Kg	1.052	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	13	2.0	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.9	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.49	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.98	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	58	2.0	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	42	9.8	mg/Kg	0.9804	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-2 (2')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-016

Basis: as received

Received: 07/16/25

537716-016 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	3.9	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	81	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	15	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	5.4	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	8.9	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	4.6	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.15	mg/Kg	1.091	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	9.2	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	43	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	39	9.6	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-2 (4')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-017

Basis: as received

Received: 07/16/25

537716-017 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	4.1	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	120	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	18	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	7.6	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	14	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	5.2	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.16	mg/Kg	1.154	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	13	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	46	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	44	9.5	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-3 (2')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-018

Basis: as received

Received: 07/16/25

537716-018 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	2.8	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	110	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	16	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.4	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	9.2	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	7.5	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.15	mg/Kg	1.071	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	9.7	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	40	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	41	9.5	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: DH-3 (4')

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-019

Basis: as received

Received: 07/16/25

537716-019 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	15	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	120	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.49	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	17	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	8.3	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	17	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.2	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.16	mg/Kg	1.111	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	13	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.49	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	67	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	39	9.7	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-1 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-021	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 0.9524	Analyzed: 07/21/25	

537716-021 Analyte	Result	RL	Units
Arsenic	4.6	0.95	mg/Kg
Lead	6.6	0.95	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-6 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-026	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 0.9709	Analyzed: 07/21/25	

537716-026 Analyte	Result	RL	Units
Arsenic	5.5	0.97	mg/Kg
Lead	6.7	0.97	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-11 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-031	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 0.9709	Analyzed: 07/21/25	

537716-031 Analyte	Result	RL	Units
Arsenic	4.6	0.97	mg/Kg
Lead	6.5	0.97	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-16 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-036	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 0.9804	Analyzed: 07/21/25	

537716-036 Analyte	Result	RL	Units
Arsenic	4.5	0.98	mg/Kg
Lead	6.0	0.98	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-17 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-037	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 1.000	Analyzed: 07/21/25	

537716-037 Analyte	Result	RL	Units
Arsenic	4.9	1.0	mg/Kg
Lead	5.8	1.0	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-21 (SURF)	Batch#: 376874	Prep: EPA 3050B
Lab ID: 537716-041	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC
Basis: as received	Prepared: 07/20/25	
DF: 0.9524	Analyzed: 07/21/25	

537716-041 Analyte	Result	RL	Units
Arsenic	4.7	0.95	mg/Kg
Lead	6.2	0.95	mg/Kg

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-7

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-049

Basis: as received

Received: 07/16/25

537716-049 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	3.0	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	4.4	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	100	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.49	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	17	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.7	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	21	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.5	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.15	mg/Kg	1.091	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	11	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.49	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.97	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	47	1.9	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	83	9.7	mg/Kg	0.9709	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-8

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-050

Basis: as received

Received: 07/16/25

537716-050 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	3.7	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	110	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	16	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.4	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	19	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.1	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.14	mg/Kg	1.017	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	11	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	42	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	70	9.6	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-9

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-051

Basis: as received

Received: 07/16/25

537716-051 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	3.9	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	98	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	16	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.1	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	20	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.7	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.14	mg/Kg	1.017	377211	07/23/25	07/24/25	EPA 7471A	EPA 7471A	MLL
Molybdenum	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	9.6	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	41	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	71	9.6	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-10

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-052

Basis: as received

Received: 07/16/25

537716-052 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	4.0	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	82	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	14	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	5.4	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	17	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.6	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.14	mg/Kg	1.034	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	9.2	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.96	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	40	1.9	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	76	9.6	mg/Kg	0.9615	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-8 DUPE

Matrix: Soil

Sampled: 07/15/25

Lab ID: 537716-054

Basis: as received

Received: 07/16/25

537716-054 Analyte	Result	RL	Units	DF	Batch#	Prepared	Analyzed	Prep	Analysis	Analyst
Antimony	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Arsenic	3.8	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Barium	100	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Beryllium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cadmium	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Chromium	20	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Cobalt	6.7	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Copper	18	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Lead	6.0	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Mercury	ND	0.14	mg/Kg	1.034	377137	07/23/25	07/23/25	EPA 7471A	EPA 7471A	KCD
Molybdenum	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Nickel	26	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Selenium	ND	3.8	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Silver	ND	0.48	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Thallium	ND	0.95	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Vanadium	42	1.9	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC
Zinc	67	9.5	mg/Kg	0.9524	376874	07/20/25	07/21/25	EPA 3050B	EPA 6020	DXC

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-11 (SURF) DUPE	Batch#: 376874	Prep: EPA 3050B	
Lab ID: 537716-056	Sampled: 07/15/25	Analysis: EPA 6020	
Matrix: Soil	Received: 07/16/25	Analyst: DXC	
Basis: as received	Prepared: 07/20/25		
DF: 0.9524	Analyzed: 07/21/25		
537716-056 Analyte		Result	RL
Arsenic		4.7	0.95
		mg/Kg	

Legend

RL: Reporting Limit

Metals Analytical Report

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: AG-21 (SURF) DUPE	Batch#: 376874	Prep: EPA 3050B	
Lab ID: 537716-058	Sampled: 07/15/25	Analysis: EPA 6020	
Matrix: Soil	Received: 07/16/25	Analyst: DXC	
Basis: as received	Prepared: 07/20/25		
DF: 0.9709	Analyzed: 07/21/25		
537716-058 Analyte		Result	RL
Lead		6.3	0.97
		mg/Kg	

Legend

RL: Reporting Limit

Metals Analytical Report: Batch QC

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Type: BLANK

Batch#: 376874

Analysis: EPA 6020

Lab ID: QC1275965

Prepared: 07/20/25

Analyst: DXC

Matrix: Soil

Analyzed: 07/21/25

DF: 1.000

Prep: EPA 3050B

QC1275965 Analyte	Result	RL	Units
Antimony	ND	1.0	mg/Kg
Arsenic	ND	1.0	mg/Kg
Barium	ND	1.0	mg/Kg
Beryllium	ND	1.0	mg/Kg
Cadmium	ND	0.50	mg/Kg
Chromium	ND	2.0	mg/Kg
Cobalt	ND	1.0	mg/Kg
Copper	ND	2.0	mg/Kg
Lead	ND	1.0	mg/Kg
Molybdenum	ND	1.0	mg/Kg
Nickel	ND	2.0	mg/Kg
Selenium	ND	4.0	mg/Kg
Silver	ND	0.50	mg/Kg
Thallium	ND	1.0	mg/Kg
Vanadium	ND	2.0	mg/Kg
Zinc	ND	10	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report: Batch QC

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Type: LCS

Batch#: 376874

Analysis: EPA 6020

Lab ID: QC1275966

Prepared: 07/20/25

Analyst: DXC

Matrix: Soil

Analyzed: 07/21/25

DF: 1.000

Prep: EPA 3050B

QC1275966 Analyte	Spiked	Result	%REC	Limits	Units
Antimony	100.0	102.5	103	80-120	mg/Kg
Arsenic	100.0	105.0	105	80-120	mg/Kg
Barium	100.0	103.3	103	80-120	mg/Kg
Beryllium	100.0	100.4	100	80-120	mg/Kg
Cadmium	100.0	107.2	107	80-120	mg/Kg
Chromium	100.0	106.5	107	80-120	mg/Kg
Cobalt	100.0	111.0	111	80-120	mg/Kg
Copper	100.0	109.4	109	80-120	mg/Kg
Lead	100.0	104.6	105	80-120	mg/Kg
Molybdenum	100.0	100.4	100	80-120	mg/Kg
Nickel	100.0	111.6	112	80-120	mg/Kg
Selenium	100.0	103.0	103	80-120	mg/Kg
Silver	50.00	52.80	106	80-120	mg/Kg
Thallium	100.0	102.8	103	80-120	mg/Kg
Vanadium	100.0	104.1	104	80-120	mg/Kg
Zinc	100.0	105.5	105	80-120	mg/Kg

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-7	Basis: as received	Prepared: 07/20/25
Type: MS	DF: 0.9709	Analyzed: 07/21/25
MSS Lab ID: 537716-049	Batch#: 376874	Prep: EPA 3050B
Lab ID: QC1275967	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC

QC1275967 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	2.957	97.09	38.65	37 *	75-125	mg/Kg
Arsenic	4.359	97.09	108.0	107	75-125	mg/Kg
Barium	104.5	97.09	214.3	113	75-125	mg/Kg
Beryllium	0.3825	97.09	103.0	106	75-125	mg/Kg
Cadmium	<0.1916	97.09	102.6	106	75-125	mg/Kg
Chromium	17.40	97.09	117.5	103	75-125	mg/Kg
Cobalt	6.675	97.09	110.8	107	75-125	mg/Kg
Copper	20.95	97.09	125.6	108	75-125	mg/Kg
Lead	6.464	97.09	107.6	104	75-125	mg/Kg
Molybdenum	0.6583	97.09	92.46	95	75-125	mg/Kg
Nickel	11.07	97.09	115.5	108	75-125	mg/Kg
Selenium	<1.468	97.09	99.79	103	75-125	mg/Kg
Silver	<0.3510	48.54	50.69	104	75-125	mg/Kg
Thallium	0.3786	97.09	100.6	103	75-125	mg/Kg
Vanadium	46.61	97.09	146.5	103	75-125	mg/Kg
Zinc	82.62	97.09	179.7	100	75-125	mg/Kg

Field ID: CS-7	Basis: as received	Prepared: 07/20/25
Type: MSD	DF: 0.9524	Analyzed: 07/21/25
MSS Lab ID: 537716-049	Batch#: 376874	Prep: EPA 3050B
Lab ID: QC1275968	Sampled: 07/15/25	Analysis: EPA 6020
Matrix: Soil	Received: 07/16/25	Analyst: DXC

QC1275968 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Antimony	95.24	40.66	40 *	75-125	mg/Kg	7	28
Arsenic	95.24	103.0	104	75-125	mg/Kg	3	22
Barium	95.24	203.2	104	75-125	mg/Kg	4	26
Beryllium	95.24	97.87	102	75-125	mg/Kg	3	20
Cadmium	95.24	98.67	104	75-125	mg/Kg	2	20
Chromium	95.24	115.3	103	75-125	mg/Kg	0	20
Cobalt	95.24	109.1	108	75-125	mg/Kg	0	20
Copper	95.24	121.8	106	75-125	mg/Kg	1	28
Lead	95.24	105.4	104	75-125	mg/Kg	0	25
Molybdenum	95.24	89.21	93	75-125	mg/Kg	2	20
Nickel	95.24	113.3	107	75-125	mg/Kg	0	20
Selenium	95.24	99.91	105	75-125	mg/Kg	2	20
Silver	47.62	48.56	102	75-125	mg/Kg	2	20
Thallium	95.24	99.42	104	75-125	mg/Kg	1	20
Vanadium	95.24	143.8	102	75-125	mg/Kg	1	20
Zinc	95.24	176.1	98	75-125	mg/Kg	1	22

Legend

*: Value is outside QC limits

RPD: Relative Percent
Difference

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: CS-7	Basis: as received	Analyzed: 07/21/25
Type: Post Digest Spike	DF: 0.9709	Prep: EPA 3050B
MSS Lab ID: 537716-049	Batch#: 376874	Analysis: EPA 6020
Lab ID: QC1275969	Sampled: 07/15/25	Analyst: DXC
Matrix: Soil	Received: 07/16/25	

QC1275969 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Antimony	2.957	97.09	87.57	87	75-125	mg/Kg
Arsenic	4.359	97.09	94.30	93	75-125	mg/Kg
Barium	104.5	97.09	207.1	106	75-125	mg/Kg
Beryllium	0.3825	97.09	89.01	91	75-125	mg/Kg
Cadmium	<0.1916	97.09	90.92	94	75-125	mg/Kg
Chromium	17.40	97.09	106.5	92	75-125	mg/Kg
Cobalt	6.675	97.09	101.7	98	75-125	mg/Kg
Copper	20.95	97.09	114.1	96	75-125	mg/Kg
Lead	6.464	97.09	97.29	94	75-125	mg/Kg
Molybdenum	0.6583	97.09	87.41	89	75-125	mg/Kg
Nickel	11.07	97.09	105.0	97	75-125	mg/Kg
Selenium	<1.468	97.09	89.62	92	75-125	mg/Kg
Silver	<0.3510	48.54	50.65	104	75-125	mg/Kg
Thallium	0.3786	97.09	91.82	94	75-125	mg/Kg
Vanadium	46.61	97.09	137.6	94	75-125	mg/Kg
Zinc	82.62	97.09	171.0	91	75-125	mg/Kg

Metals Analytical Report: Batch QC

Lab #: 537716

Project#: 2401-4671

Client: Padre Associates, Inc.

Location: VUSD - LOWREY RANCH (EAST)

Field ID: CS-7

Basis: as received

Analyzed: 07/21/25

Type: Serial Dilution

DF: 4.854

Prep: EPA 3050B

MSS Lab ID: 537716-049

Batch#: 376874

Analysis: EPA 6020

Lab ID: QC1276218

Sampled: 07/15/25

Analyst: DXC

Matrix: Soil

Received: 07/16/25

QC1276218 Analyte	MSS Result	MSS RL	Result	RL	Units	% Diff	Lim
Antimony	2.957	0.9709	ND	4.854	mg/Kg	NC	10
Arsenic	4.359	0.9709	4.612 J	4.854	mg/Kg	NC	10
Barium	104.5	0.9709	108.0	4.854	mg/Kg	3	10
Beryllium	0.3825	0.9709	ND	4.854	mg/Kg	NC	10
Cadmium	ND	0.4854	ND	2.427	mg/Kg	NC	10
Chromium	17.40	0.9709	18.29	4.854	mg/Kg	NC	10
Cobalt	6.675	0.9709	7.680	4.854	mg/Kg	NC	10
Copper	20.95	0.9709	20.36	4.854	mg/Kg	NC	10
Lead	6.464	0.4854	6.529	2.427	mg/Kg	NC	10
Molybdenum	0.6583	0.9709	ND	4.854	mg/Kg	NC	10
Nickel	11.07	0.9709	11.62	4.854	mg/Kg	NC	10
Selenium	ND	1.942	ND	9.709	mg/Kg	NC	10
Silver	ND	0.4854	ND	2.427	mg/Kg	NC	10
Thallium	0.3786	0.9709	ND	4.854	mg/Kg	NC	10
Vanadium	46.61	1.942	49.04	9.709	mg/Kg	5	10
Zinc	82.62	4.854	84.65	24.27	mg/Kg	NC	10

Legend

J: Estimated value

NC: Not Calculated

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report: Batch QC

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Type: BLANK	Batch#: 377137	Analysis: EPA 7471A	
Lab ID: QC1276910	Prepared: 07/23/25	Analyst: KCD	
Matrix: Soil	Analyzed: 07/23/25		
DF: 0.9998	Prep: EPA 7471A		

QC1276910 Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report: Batch QC**Lab #:** 537716**Project#:** 2401-4671**Client:** Padre Associates, Inc.**Location:** VUSD - LOWREY RANCH (EAST)**Type:** LCS**Batch#:** 377137**Analysis:** EPA 7471A**Lab ID:** QC1276911**Prepared:** 07/23/25**Analyst:** KCD**Matrix:** Soil**Analyzed:** 07/23/25**DF:** 0.9998**Prep:** EPA 7471A

QC1276911 Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.7892	95	80-120	mg/Kg

Metals Analytical Report: Batch QC

Lab #: 537716			Project#: 2401-4671		
Client: Padre Associates, Inc.			Location: VUSD - LOWREY RANCH (EAST)		
Field ID: DH-1 (2')	Basis: as received	Prepared: 07/23/25			
Type: MS	DF: 1.176	Analyzed: 07/23/25			
MSS Lab ID: 537716-014	Batch#: 377137	Prep: EPA 7471A			
Lab ID: QC1276912	Sampled: 07/15/25	Analysis: EPA 7471A			
Matrix: Soil	Received: 07/16/25	Analyst: KCD			

QC1276912 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	<0.007743	0.9804	0.9332	95	75-125	mg/Kg

Field ID: DH-1 (2')	Basis: as received	Prepared: 07/23/25			
Type: MSD	DF: 1.071	Analyzed: 07/23/25			
MSS Lab ID: 537716-014	Batch#: 377137	Prep: EPA 7471A			
Lab ID: QC1276913	Sampled: 07/15/25	Analysis: EPA 7471A			
Matrix: Soil	Received: 07/16/25	Analyst: KCD			

QC1276913 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8929	0.8404	94	75-125	mg/Kg	1	20

Legend
RPD: Relative Percent
Difference

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Type: BLANK	Batch#: 377211	Analysis: EPA 7471A
Lab ID: QC1277159	Prepared: 07/23/25	Analyst: MLL
Matrix: Soil	Analyzed: 07/24/25	
DF: 0.9998	Prep: EPA 7471A	

QC1277159 Analyte	Result	RL	Units
Mercury	ND	0.14	mg/Kg

Legend

ND: Not Detected

RL: Reporting Limit

Metals Analytical Report: Batch QC**Lab #:** 537716**Project#:** 2401-4671**Client:** Padre Associates, Inc.**Location:** VUSD - LOWREY RANCH (EAST)**Type:** LCS**Batch#:** 377211**Analysis:** EPA 7471A**Lab ID:** QC1277160**Prepared:** 07/23/25**Analyst:** MLL**Matrix:** Soil**Analyzed:** 07/24/25**DF:** 0.9998**Prep:** EPA 7471A

QC1277160 Analyte	Spiked	Result	%REC	Limits	Units
Mercury	0.8333	0.7569	91	80-120	mg/Kg

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/23/25
Type: MS	DF: 1.091	Analyzed: 07/24/25
MSS Lab ID: 538149-001	Batch#: 377211	Prep: EPA 7471A
Lab ID: QC1277161	Sampled: 07/18/25	Analysis: EPA 7471A
Matrix: Soil	Received: 07/21/25	Analyst: MLL

QC1277161 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Mercury	0.02041	0.9091	0.8870	95	75-125	mg/Kg

Field ID: ZZZZZZZZZZ	Basis: as received	Prepared: 07/23/25
Type: MSD	DF: 1.052	Analyzed: 07/24/25
MSS Lab ID: 538149-001	Batch#: 377211	Prep: EPA 7471A
Lab ID: QC1277162	Sampled: 07/18/25	Analysis: EPA 7471A
Matrix: Soil	Received: 07/21/25	Analyst: MLL

QC1277162 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Mercury	0.8772	0.8303	92	75-125	mg/Kg	3	20

Legend
RPD: Relative Percent
Difference

Metals Analytical Report

Lab #: 537716		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: FB #1	Batch#: 376802	Prep: EPA 3015A	
Type: SAMPLE	Sampled: 07/15/25	Analysis: EPA 200.8	
Lab ID: 537716-010	Received: 07/16/25	Analyst: KAM	
Matrix: Water	Prepared: 07/18/25		
DF: 1.000	Analyzed: 07/19/25		
537716-010 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Lead		ND	5.0 ug/L
Field ID: EB #1	Batch#: 376802	Prep: EPA 3015A	
Type: SAMPLE	Sampled: 07/15/25	Analysis: EPA 200.8	
Lab ID: 537716-020	Received: 07/16/25	Analyst: KAM	
Matrix: Water	Prepared: 07/18/25		
DF: 1.000	Analyzed: 07/19/25		
537716-020 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Lead		ND	5.0 ug/L
Type: BLANK	Batch#: 376802	Analysis: EPA 200.8	
Lab ID: QC1275699	Prepared: 07/18/25	Analyst: KAM	
Matrix: Water	Analyzed: 07/19/25		
DF: 1.000	Prep: EPA 3015A		
QC1275699 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Lead		ND	5.0 ug/L
Legend			
ND: Not Detected			
RL: Reporting Limit			

Metals Analytical Report: Batch QC**Lab #:** 537716**Project#:** 2401-4671**Client:** Padre Associates, Inc.**Location:** VUSD - LOWREY RANCH (EAST)**Type:** LCS**Batch#:** 376802**Analysis:** EPA 200.8**Lab ID:** QC1275700**Prepared:** 07/18/25**Analyst:** KAM**Matrix:** Water**Analyzed:** 07/19/25**DF:** 1.000**Prep:** EPA 3015A

QC1275700 Analyte	Spiked	Result	%REC	Limits	Units
Arsenic	100.0	95.80	96	85-115	ug/L
Lead	100.0	98.12	98	85-115	ug/L

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: FB #1	DF: 1.000	Analyzed: 07/19/25
Type: MS	Batch#: 376802	Prep: EPA 3015A
MSS Lab ID: 537716-010	Sampled: 07/15/25	Analysis: EPA 200.8
Lab ID: QC1275701	Received: 07/16/25	Analyst: KAM
Matrix: Water	Prepared: 07/18/25	

QC1275701 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	<0.3753	100.0	97.00	97	70-130	ug/L
Lead	<0.1764	100.0	98.32	98	70-130	ug/L

Field ID: FB #1	DF: 1.000	Analyzed: 07/19/25
Type: MSD	Batch#: 376802	Prep: EPA 3015A
MSS Lab ID: 537716-010	Sampled: 07/15/25	Analysis: EPA 200.8
Lab ID: QC1275702	Received: 07/16/25	Analyst: KAM
Matrix: Water	Prepared: 07/18/25	

QC1275702 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Arsenic	100.0	97.03	97	70-130	ug/L	0	20
Lead	100.0	97.95	98	70-130	ug/L	0	20

Legend
RPD: Relative Percent
Difference

Metals Analytical Report: Batch QC

Lab #: 537716	Project#: 2401-4671	
Client: Padre Associates, Inc.	Location: VUSD - LOWREY RANCH (EAST)	
Field ID: <u>ZZZZZZZZZZ</u>	DF: 1.000	Analyzed: 07/19/25
Type: MS	Batch#: 376802	Prep: EPA 3015A
MSS Lab ID: 537921-001	Sampled: 07/17/25	Analysis: EPA 200.8
Lab ID: QC1275703	Received: 07/17/25	Analyst: KAM
Matrix: Water	Prepared: 07/18/25	

QC1275703 Analyte	MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic	1.388	100.0	99.93	99	70-130	ug/L
Lead	0.2790	100.0	95.27	95	70-130	ug/L

Field ID: ZZZZZZZZZZ	DF: 1.000	Analyzed: 07/19/25
Type: MSD	Batch#: 376802	Prep: EPA 3015A
MSS Lab ID: 537921-001	Sampled: 07/17/25	Analysis: EPA 200.8
Lab ID: QC1275704	Received: 07/17/25	Analyst: KAM
Matrix: Water	Prepared: 07/18/25	

QC1275704 Analyte	Spiked	Result	%REC	Limits	Units	RPD	Lim
Arsenic	100.0	101.1	100	70-130	ug/L	1	20
Lead	100.0	98.05	98	70-130	ug/L	3	20

Legend
 RPD: Relative Percent
 Difference



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

enthalpy.com

Lab Job Number : 539069
Report Level : II
Report Date : 08/12/2025

Analytical Report *prepared for:*

Alan Klein
Padre Associates, Inc.
350 University Avenue
Suite 250
Sacramento, CA 95825

Project: 2401-4671 - VUSD - LOWREY RANCH (EAST)

Authorized for release by:

Miguel Gamboa, Project Manager
miguel.gamboa@enthalpy.com

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

CA ELAP# 1338, CA ELAP #1338-S1, NELAP# 4038, SCAQMD LAP# 18LA0518, LACSD ID# 10105, ORELAP# 4197

Sample Summary

Alan Klein
 Padre Associates, Inc.
 350 University Avenue
 Suite 250
 Sacramento, CA
 95825

Lab Job #: 539069
 Project No: 2401-4671
 Location: VUSD - LOWREY RANCH (EAST)
 Date Received: 08/04/25

Sample ID	Lab ID	Collected	Matrix
DH-3A (5-5.5')	539069-001	08/01/25 08:57	Soil
DH-4 (2-2.5')	539069-002	08/01/25 09:05	Soil
DH-4 (4-4.5')	539069-003	08/01/25 09:10	Soil
DH-4 (5-5.5')	539069-004	08/01/25 09:13	Soil
DH-5 (2-2.5')	539069-005	08/01/25 09:25	Soil
DH-5 (4-4.5')	539069-006	08/01/25 09:29	Soil
DH-5 (5-5.5')	539069-007	08/01/25 09:33	Soil
DH-6 (2-2.5')	539069-008	08/01/25 09:42	Soil
DH-6 (4-4.5')	539069-009	08/01/25 09:45	Soil
DH-6 (5-5.5')	539069-010	08/01/25 09:50	Soil
DH-7 2-2.5')	539069-011	08/01/25 09:58	Soil
DH-7 (4-4.5')	539069-012	08/01/25 10:02	Soil
DH-7 (5-5.5')	539069-013	08/01/25 10:05	Soil
FB#1	539069-014	08/01/25 10:30	Water
EB#1	539069-015	08/01/25 10:35	Water

Case Narrative

Padre Associates, Inc.
350 University Avenue
Suite 250
Sacramento, CA 95825
Alan Klein

Lab Job Number: 539069
Project No: 2401-4671
Location: VUSD - LOWREY RANCH
(EAST)
Date Received: 08/04/25

This data package contains sample and QC results for five soil samples and two water samples, requested for the above referenced project on 08/05/25. The samples were received cold and intact.

Metals (EPA 6020):

No analytical problems were encountered.

Metals (EPA 200.8):

No analytical problems were encountered.



ENTHALPY ANALYTICAL

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

Chain of Custody Record

Lab No: 539069

Page: 2 of 2

Turn Around Time (rush by advanced notice only)

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

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

Preservatives:
1 = Na₂S₂O₃ 2 = HCl 3 = HNO₃
4 = H₂SO₄ 5 = NaOH 6 = Other

Sample Receipt Temp:
(lab use only)

CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	PADRE ASSOCIATES, INC.	Name:	VUSD - LOWREY RANCH (EAST)				
Report To:	ALAN KLEIN	Number:	2401-4671				
Email:	aklein@padreinc.com	P.O. #:					
Address:	350 UNIVERSITY AVE, #250	Address:	Visalia, CA				
	SACRAMENTO, CA 95825						
Phone:	916-947-4831	Global ID:					
Fax:		Sampled By:	AC				

Sample ID	Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	Analysis Request	Test Instructions / Comments
1 DH-7 (2-2.5')	08/01/25	958	S	2"X6" STEEL	ICE	Arсенic (200.8)	
2 DH-7 (4-4.5')	08/01/25	1002	S	2"X6" STEEL	ICE	Arсенic (6020)	
3 DH-7 (5-5.5')	08/01/25	1005	S	2"X6" STEEL	ICE		
4 FB#1	08/01/25	1030	S	2"X6" STEEL	ICE		
5 EB#1	08/01/25	1035	S	2"X6" STEEL	ICE		
6							
7							
8							
9							
10							

Signature	Print Name	Company / Title	Date / Time
<i>[Signature]</i>	ALAN CHURCHILL	PADRE/SR. GEOLOGIST	8-4-25/ 1150
<i>[Signature]</i>	Brenda Hamilton	EA/SCM	8-4-25 1150
<i>[Signature]</i>	Brenda Hamilton	EA/SCM	8-4-25 1800
<i>[Signature]</i>	Gerry Wynn	GA	AUG 05 2025 1500

1 Relinquished By:	
1 Received By:	
2 Relinquished By:	
2 Received By:	
3 Relinquished By:	
3 Received By:	

ENTHALPY ANALYTICAL		Chain of Custody Record		Turn Around Time (rush by advanced notice only)			
Lab No: 539069		Standard:		5 Day: X		3 Day:	
Page: 1 of 2		2 Day:		1 Day:		Custom TAT:	
Enthalpy Analytical - Orange 931 W. Barkley Avenue, Orange, CA 92868 Phone 714-771-6900		Matrix: A = Air S = Soil/Solid W = Water DW = Drinking Water SD = Sediment PP = Pure Product SEA = Sea Water SW = Swab T = Tissue WP = Wipe O = Other		Preservatives: 1 = Na ₂ S ₂ O ₃ 2 = HCl 3 = HNO ₃ 4 = H ₂ SO ₄ 5 = NaOH 6 = Other		Sample Receipt Temp: (lab use only)	
CUSTOMER INFORMATION		PROJECT INFORMATION		Analysis Request		Test Instructions / Comments	
Company:	PADRE ASSOCIATES, INC.	Name:	VUSD - LOWREY RANCH (EAST)				
Report To:	ALAN KLEIN	Number:	2401-4671				
Email:	aklein@padreinc.com	P.O. #:					
Address:	350 UNIVERSITY AVE, #250 SACRAMENTO, CA 95825	Address:	Visalia, CA				
Phone:	916-947-4831	Global ID:					
Fax:		Sampled By:	AC				
Sample ID		Sampling Date	Sampling Time	Matrix	Container No. / Size	Pres.	
1	DH-3A (5-5.5')	08/01/25	857	S	2"X6" STEEL	ICE	
2	DH-4 (2-2.5')	08/01/25	905	S	2"X6" STEEL	ICE	
3	DH-4 (4-4.5')	08/01/25	910	S	2"X6" STEEL	ICE	
4	DH-4 (5-5.5')	08/01/25	913	S	2"X6" STEEL	ICE	
5	DH-5 (2-2.5')	08/01/25	925	S	2"X6" STEEL	ICE	
6	DH-5 (4-4.5')	08/01/25	929	S	2"X6" STEEL	ICE	
7	DH-5 (5-5.5')	08/01/25	933	S	2"X6" STEEL	ICE	
8	DH-6 (2-2.5')	08/01/25	942	S	2"X6" STEEL	ICE	
9	DH-6 (4-4.5')	08/01/25	945	S	2"X6" STEEL	ICE	
10	DH-6 (5-5.5')	08/01/25	950	S	2"X6" STEEL	ICE	
Signature		Print Name		Company / Title		Date / Time	
1 Relinquished By:	<i>Alan Klein</i>	ALAN CHURCHILL		PADRE/SR. GEOLOGIST		8-4-25/ 1150	
1 Received By:	<i>Brenda Hamilton</i>	<i>Brenda Hamilton</i>		<i>EA / SEM</i>		<i>8-4-25 1150</i>	
2 Relinquished By:	<i>Brenda Hamilton</i>	<i>Brenda Hamilton</i>		<i>EA / SEM</i>		<i>8-4-25 1800</i>	
2 Received By:	<i>Greg</i>	<i>Greg</i>		<i>EA</i>		<i>AUG 05 2025 1200</i>	
3 Relinquished By:							
3 Received By:							

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 8/4/25 WO# 539069 Client: Padre

Section 2: Shipping / Custody

Are custody seals present? ☐ Yes ☒ No

Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

☐ Courier ☒ Walk-In ☐ Field Sampling ☐ Shipping Info: _____

Section 3a: Condition / Packaging

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 8/4/25 By (initials) BL Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR07 CF: 0.3°C

Cooler Temp (°C) #1: 43 #2: 40 #3: _____ #4: _____ #5: _____ #6: _____

Section 3b: Microbiology Samples

☒ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples

☒ No air samples submitted (skip 3c)

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	☒	☐	☐
2) Is the sampler's name present on the CoC?	☒	☐	☐
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	☒	☐	☐
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	☒	☐	☐
5) Were all of, and only, the correct samples received?	☒	☐	☐
6) Are sample labels present, legible, and in agreement with the CoC?	☐	☒	☐
7) Does the container count match the CoC?	☒	☐	☐
8) Was sufficient sample volume / mass received for the analyses requested?	☒	☐	☐
9) Were samples received in proper containers for the analyses requested?	☒	☐	☐
10) Were samples received with > 1/2 holding time remaining?	☒	☐	☐
11) Are samples properly preserved as indicated by CoC / labels?	☒	☐	☐
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?	☐	☐	☒
13) Are VOA vials free from headspace/bubbles > 6mm?	☐	☐	☒

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

-013, client changed to DH - 7 (5-5.5')

-014, sample tag ID does not match CoC

-015, sample tag ID does not match CoC

☐ No additional discrepancies

Date Logged 8/4/25 By (print) Brenda Hammon (sign) Brenda Hammon

Date Labeled 8/4/25 By (print) Joel Tillman (sign) Joel Tillman

SAMPLE RECEIPT CHECKLIST



Section 1: General Info

Date Received: 08/05/2025 WO# 539071-539069 Client: Padre Associates

Section 2: Shipping / Custody

Are custody seals present? ☐ Yes ☒ No

Custody seals intact on arrival? ☒ N/A ☐ Yes ☐ No ☐ On cooler / box ☐ On samples

☐ Courier ☐ Walk-In ☐ Field Sampling ☒ Shipping Info: Interstate

Section 3a: Condition / Packaging

☐ Outside 0.0 - 6.0°C (0.0 - 10.0°C for microbiology) (PM notified)

Date Opened 08/05/2025 By (initials) NCM

Type of ice used: ☒ Wet ☐ Blue/Gel ☐ None

☐ Samples received on ice directly from the field; cooling process had begun. (if checked, skip temperatures)

☐ Sample matrix doesn't require cooling (e.g. air, bulk PCB). (if checked, skip temperatures)

If no cooler: Observed/Adjusted Temp (°C): _____ / _____ Thermometer/IR Gun: IR13 _____ CF: 0

Cooler Temp (°C) #1: 3.8 / 2.8 #2: _____ / _____ #3: _____ / _____ #4: _____ / _____ #5: _____ / _____ #6: _____ / _____

Section 3b: Microbiology Samples

☒ No microbiology samples submitted (skip 3b)

☐ Within temp range 0.0 - 10.0°C or received on ice directly from field.

☐ Adequate headspace for microbiology analysis.

Section 3c: Air Samples

☒ No air samples submitted (skip 3c)

☐ 1.4L Canisters ☐ 6L Canisters ☐ Tedlar Bags ☐ MCE Cassettes ☐ Sorbent Tubes ☐ Other _____

Section 4: Containers / Labels / Samples

	YES	NO	N/A
1) Were custody papers present, filled properly, and legible?	x		
2) Is the sampler's name present on the CoC?	x		
3) Were containers received in good condition (unbroken / unopened / uncompromised)?	x		
4) Were the samples bagged? (required for microbiology samples; recommended for soil samples)	x		
5) Were all of, and only, the correct samples received?	x		
6) Are sample labels present, legible, and in agreement with the CoC?		x	
7) Does the container count match the CoC?	x		
8) Was sufficient sample volume / mass received for the analyses requested?	x		
9) Were samples received in proper containers for the analyses requested?	x		
10) Were samples received with > 1/2 holding time remaining?	x		
11) Are samples properly preserved as indicated by CoC / labels?	x		
12) Unpreserved VOAs received - If necessary, was the hold time changed in LIMS?			x
13) Are VOA vials free from headspace/bubbles > 6mm?			x

Section 5: Explanations / Comments

(If no comments are made, then no discrepancies noted.)

See Sacramento's sheet

☐ No additional discrepancies

Date Logged 08/04/2025 By (print) Sacramento

(sign)

Date Labeled 08/04/2025 By (print) Sacramento

(sign)

Arsenic

Lab #: 539069		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: DH-3A (5-5.5')	DF: 0.9709	Analyzed: 08/05/25	
Type: SAMPLE	Batch#: 378382	Prep: EPA 3050B	
Lab ID: 539069-001	Sampled: 08/01/25	Analysis: EPA 6020	
Matrix: Soil	Received: 08/04/25	Analyst: KAM	
Basis: as received	Prepared: 08/05/25		
539069-001 Analyte		Result	RL
Arsenic		5.5	0.97
		Units	
		mg/Kg	
Field ID: DH-4 (4-4.5')	DF: 0.9901	Analyzed: 08/05/25	
Type: SAMPLE	Batch#: 378382	Prep: EPA 3050B	
Lab ID: 539069-003	Sampled: 08/01/25	Analysis: EPA 6020	
Matrix: Soil	Received: 08/04/25	Analyst: KAM	
Basis: as received	Prepared: 08/05/25		
539069-003 Analyte		Result	RL
Arsenic		3.8	0.99
		Units	
		mg/Kg	
Field ID: DH-5 (4-4.5')	DF: 1.000	Analyzed: 08/05/25	
Type: SAMPLE	Batch#: 378382	Prep: EPA 3050B	
Lab ID: 539069-006	Sampled: 08/01/25	Analysis: EPA 6020	
Matrix: Soil	Received: 08/04/25	Analyst: KAM	
Basis: as received	Prepared: 08/05/25		
539069-006 Analyte		Result	RL
Arsenic		6.3	1.0
		Units	
		mg/Kg	
Field ID: DH-6 (4-4.5')	DF: 1.000	Analyzed: 08/05/25	
Type: SAMPLE	Batch#: 378382	Prep: EPA 3050B	
Lab ID: 539069-009	Sampled: 08/01/25	Analysis: EPA 6020	
Matrix: Soil	Received: 08/04/25	Analyst: KAM	
Basis: as received	Prepared: 08/05/25		
539069-009 Analyte		Result	RL
Arsenic		11	1.0
		Units	
		mg/Kg	
Field ID: DH-7 (4-4.5')	DF: 1.000	Analyzed: 08/05/25	
Type: SAMPLE	Batch#: 378382	Prep: EPA 3050B	
Lab ID: 539069-012	Sampled: 08/01/25	Analysis: EPA 6020	
Matrix: Soil	Received: 08/04/25	Analyst: KAM	
Basis: as received	Prepared: 08/05/25		
539069-012 Analyte		Result	RL
Arsenic		6.6	1.0
		Units	
		mg/Kg	

Arsenic**Lab #:** 539069**Project#:** 2401-4671**Client:** Padre Associates, Inc.**Location:** VUSD - LOWREY RANCH (EAST)**Type:** BLANK**Batch#:** 378382**Analysis:** EPA 6020**Lab ID:** QC1281318**Prepared:** 08/05/25**Analyst:** KAM**Matrix:** Soil**Analyzed:** 08/05/25**DF:** 1.000**Prep:** EPA 3050B**QC1281318 Analyte****Result****RL****Units**

Arsenic

ND

1.0

mg/Kg

Legend

ND: Not Detected**RL:** Reporting Limit

Arsenic: Batch QC

Lab #: 539069		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Type: LCS	Batch#: 378382	Analysis: EPA 6020	
Lab ID: QC1281319	Prepared: 08/05/25	Analyst: KAM	
Matrix: Soil	Analyzed: 08/05/25		
DF: 1.000	Prep: EPA 3050B		
QC1281319 Analyte	Spiked	Result	%REC Limits Units
Arsenic	100.0	99.24	99 80-120 mg/Kg
Field ID: DH-3A (5-5.5')		Basis: as received	Prepared: 08/05/25
Type: MS		DF: 0.9804	Analyzed: 08/05/25
MSS Lab ID: 539069-001		Batch#: 378382	Prep: EPA 3050B
Lab ID: QC1281320		Sampled: 08/01/25	Analysis: EPA 6020
Matrix: Soil		Received: 08/04/25	Analyst: KAM
QC1281320 Analyte	MSS Result	Spiked	Result %REC Limits Units
Arsenic	5.466	98.04	103.2 100 75-125 mg/Kg
Field ID: DH-3A (5-5.5')		Basis: as received	Prepared: 08/05/25
Type: MSD		DF: 0.9709	Analyzed: 08/05/25
MSS Lab ID: 539069-001		Batch#: 378382	Prep: EPA 3050B
Lab ID: QC1281321		Sampled: 08/01/25	Analysis: EPA 6020
Matrix: Soil		Received: 08/04/25	Analyst: KAM
QC1281321 Analyte	Spiked	Result	%REC Limits Units RPD Lim
Arsenic	97.09	102.6	100 75-125 mg/Kg 0 22

Legend
RPD: Relative Percent
Difference

Arsenic: Batch QC

Lab #: 539069		Project#: 2401-4671					
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)					
Field ID: DH-3A (5-5.5')		Basis: as received			Analyzed: 08/05/25		
Type: Post Digest Spike		DF: 0.9709			Prep: EPA 3050B		
MSS Lab ID: 539069-001		Batch#: 378382			Analysis: EPA 6020		
Lab ID: QC1281322		Sampled: 08/01/25			Analyst: KAM		
Matrix: Soil		Received: 08/04/25					
QC1281322 Analyte		MSS Result	Spiked	Result	%REC	Limits	Units
Arsenic		5.466	97.09	103.9	101	75-125	mg/Kg

Metals Analytical Report

Lab #: 539069		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Field ID: FB#1	Batch#: 378371	Prep: EPA 3015A	
Type: SAMPLE	Sampled: 08/01/25	Analysis: EPA 200.8	
Lab ID: 539069-014	Received: 08/04/25	Analyst: DXC	
Matrix: Water	Prepared: 08/05/25		
DF: 1.000	Analyzed: 08/05/25		
539069-014 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Field ID: EB#1	Batch#: 378371	Prep: EPA 3015A	
Type: SAMPLE	Sampled: 08/01/25	Analysis: EPA 200.8	
Lab ID: 539069-015	Received: 08/04/25	Analyst: DXC	
Matrix: Water	Prepared: 08/05/25		
DF: 1.000	Analyzed: 08/06/25		
539069-015 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Type: BLANK	Batch#: 378371	Analysis: EPA 200.8	
Lab ID: QC1281296	Prepared: 08/05/25	Analyst: DXC	
Matrix: Water	Analyzed: 08/05/25		
DF: 1.000	Prep: EPA 3015A		
QC1281296 Analyte		Result	RL Units
Arsenic		ND	2.0 ug/L
Legend			
ND: Not Detected			
RL: Reporting Limit			

Metals Analytical Report: Batch QC

Lab #: 539069		Project#: 2401-4671	
Client: Padre Associates, Inc.		Location: VUSD - LOWREY RANCH (EAST)	
Type: LCS	Batch#: 378371	Analysis: EPA 200.8	
Lab ID: QC1281297	Prepared: 08/05/25	Analyst: DXC	
Matrix: Water	Analyzed: 08/05/25		
DF: 1.000	Prep: EPA 3015A		
QC1281297 Analyte	Spiked	Result	%REC Limits Units
Arsenic	100.0	94.09	94 85-115 ug/L
Field ID: FB#1		DF: 1.000	Analyzed: 08/05/25
Type: MS		Batch#: 378371	Prep: EPA 3015A
MSS Lab ID: 539069-014		Sampled: 08/01/25	Analysis: EPA 200.8
Lab ID: QC1281298		Received: 08/04/25	Analyst: DXC
Matrix: Water		Prepared: 08/05/25	
QC1281298 Analyte	MSS Result	Spiked	Result %REC Limits Units
Arsenic	<0.2160	100.0	93.45 93 70-130 ug/L
Field ID: ZZZZZZZZZZ		DF: 25.00	Analyzed: 08/05/25
Type: MS		Batch#: 378371	Prep: EPA 3015A
MSS Lab ID: 539212-001		Sampled: 08/05/25	Analysis: EPA 200.8
Lab ID: QC1281300		Received: 08/05/25	Analyst: DXC
Matrix: Water		Prepared: 08/05/25	
QC1281300 Analyte	MSS Result	Spiked	Result %REC Limits Units
Arsenic	5.216	100.0	104.7 99 70-130 ug/L
Field ID: FB#1		DF: 1.000	Analyzed: 08/05/25
Type: MSD		Batch#: 378371	Prep: EPA 3015A
MSS Lab ID: 539069-014		Sampled: 08/01/25	Analysis: EPA 200.8
Lab ID: QC1281299		Received: 08/04/25	Analyst: DXC
Matrix: Water		Prepared: 08/05/25	
QC1281299 Analyte	Spiked	Result	%REC Limits Units RPD Lim
Arsenic	100.0	95.01	95 70-130 ug/L 2 20
Field ID: ZZZZZZZZZZ		DF: 25.00	Analyzed: 08/05/25
Type: MSD		Batch#: 378371	Prep: EPA 3015A
MSS Lab ID: 539212-001		Sampled: 08/05/25	Analysis: EPA 200.8
Lab ID: QC1281301		Received: 08/05/25	Analyst: DXC
Matrix: Water		Prepared: 08/05/25	
QC1281301 Analyte	Spiked	Result	%REC Limits Units RPD Lim
Arsenic	100.0	104.9	100 70-130 ug/L 0 20

Legend
RPD: Relative Percent
Difference

APPENDIX F
ARSENIC BACKGROUND DATA SET



engineers | scientists | innovators

**TARGETED SITE INVESTIGATION PRELIMINARY ENDANGERMENT
ASSESSMENT REPORT**

PROPOSED LOWERY RANCH SCHOOL

Prepared for

Department of Toxic Substances Control

Northern California Schools Unit Site Mitigation and Restoration Program
8800 Cal Center Drive
Sacramento, California 95826

Prepared by

Geosyntec Consultants, Inc.

5084 N Fruit Ave, Suite 103

Fresno, California 93711

Project Number: SAC147U

July 03, 2019

Table 1
CAM 17 Metals Soil Analytical Results
TSI PEA Report
Proposed Lowery Ranch School
River Way Drive Alignment Visalia, California

SAMPLE LOCATION and DEPTH	POTENTIAL REC	MATRIX	CAM 17 Metals (U.S. EPA Methods 6010B/ 7471A) mg/Kg																
			Antimony	Arsenic	Barium	Beryllium	Cadmium	Chromium	Cobalt	Copper	Lead	Mercury	Molybdenem	Nickel	Selenium	Silver	Thallium	Vanadium	Zinc
HHRA SL Cancer Endpoint ¹			--	0.11	--	1,600	910	--	--	--	--	--	--	15,000	--	--	--	--	--
HHRA SL Noncancer Endpoint ¹			31	0.41	15,000	16	71	120,000	23	3,100	80	1.0	390	820	390	390	0.78	390	23,000
B1-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4.7	74	0.3	<0.1	13	4.9	12	6.3	<0.04	<0.2	7.8	<0.2	0.2 J	<0.1	39	49
B1-4.5	Evaluate background arsenic	Soil	--	9.6	--	--	--	--	--	--	9.6	--	--	--	--	--	--	--	--
B2-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4.6	79	0.28	0.055 J	13	5.1	13	6	<0.04	<0.2	7.9	<0.2	0.15 J	<0.1	38	39
B3-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4.3	71	0.23	0.062 J	13	4.5	10	6.6	<0.04	<0.2	7	<0.2	0.22 J	<0.1	38	39
B4-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4	70	0.24	0.047 J	12	4.2	10	5	<0.04	<0.2	6.8	<0.2	0.16 J	<0.1	33	34
B4-4.5	Evaluate background arsenic	Soil	--	5.1	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B5-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4.8	73	0.25	0.059 J	13	4.6	12	6.3	0.024 J	<0.2	7.3	<0.2	0.21 J	<0.1	36	40
B5-4.5	Evaluate background arsenic	Soil	--	7.6	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
B6-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	2.9	49	0.13	0.073 J	9.3	3.5	8.2	5.2	<0.04	<0.2	5.4	<0.2	<0.1	<0.1	31	29
B7-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4	75	0.26	0.049 J	12	4.9	11	5.7	<0.04	<0.2	7.5	<0.2	0.22 J	<0.1	37	39
B6-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	2.9	49	0.13	0.073 J	9.3	3.5	8.2	5.2	--	<0.2	5.4	<0.2	<0.1	<0.1	31	29
B7-0.5	Potential impacts from agricultural chemicals	Soil	<0.20	4	75	0.26	0.049 J	12	4.9	11	5.7	--	<0.2	7.5	<0.2	0.22	<0.1	37	39
B7-4.0	Evaluate background arsenic	Soil	--	5.3	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--
Res-1-0.5	Potential impacts in soil around residence	Soil	--	--	--	--	--	--	--	--	9.8	--	--	--	--	--	--	--	--
Res-2-0.5	Potential impacts in soil around residence	Soil	--	--	--	--	--	--	--	--	6.2	--	--	--	--	--	--	--	--
Res-3-0.5	Potential impacts in soil around residence	Soil	--	--	--	--	--	--	--	--	9.2	--	--	--	--	--	--	--	--
Res-4-0.5	Potential impacts in soil around residence	Soil	--	--	--	--	--	--	--	--	4.9	--	--	--	--	--	--	--	--
Shed-1-0.5	Potential impacts in soil around shed	Soil	--	--	--	--	--	--	--	--	7.3	--	--	--	--	--	--	--	--
Shed-2-0.5	Potential impacts in soil around shed	Soil	--	--	--	--	--	--	--	--	8.3	--	--	--	--	--	--	--	--

Notes:

1. Human Health Risk Assessment Screening Levels (HHRA SL) Note 3 - DTSC, revised April 2019 for residential soil. HHRA screening levels applied when available, US EPA Regional Screening Levels (RSLs) (revised May 2019) applied when HHRA SL not available.

J = The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.

J+ = The analyte was positively identified; however, the associated numerical value is likely to be higher than the concentration of the analyte in the sample due to positive bias of associated QC or calibration data or attributable to matrix interference.

UJ = the analyte was not positively identified; the method detection limit is considered estimated

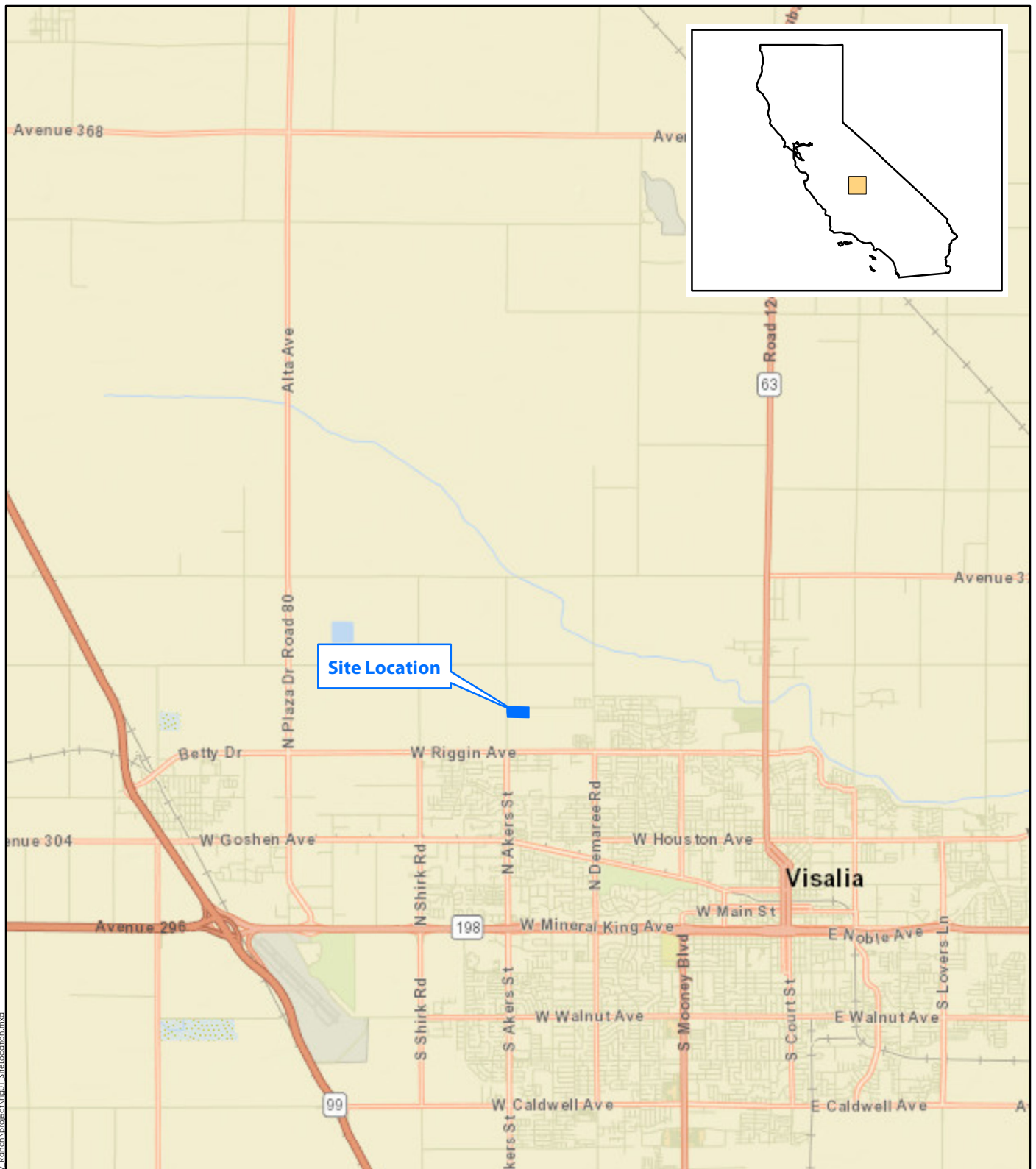
-- = Not Analyzed or Applicable

< = Analyte not detected. Method Detection Limits shown.

Bold = Analyte reported above laboratory method detection limit but below screening level (if applicable)

Gray and Bold = Analyte reported above screening level

CAM 17 Metals = California Assessment Manual 17 Metals



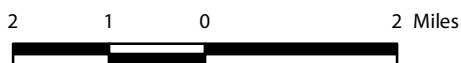
Legend



Site Location

Map Sources

Esri, DeLorme, NAVTEQ, USGS, Intermap, iPC, NRCAN, Esri Japan, METI, Esri China (Hong Kong), Esri (Thailand), TomTom, 2012



Site Location Map

TSI PEA Workplan
Ritchie Ranch
Road 100 & Ave 318 (River Way Drive)
Visalia, CA

Geosyntec
consultants

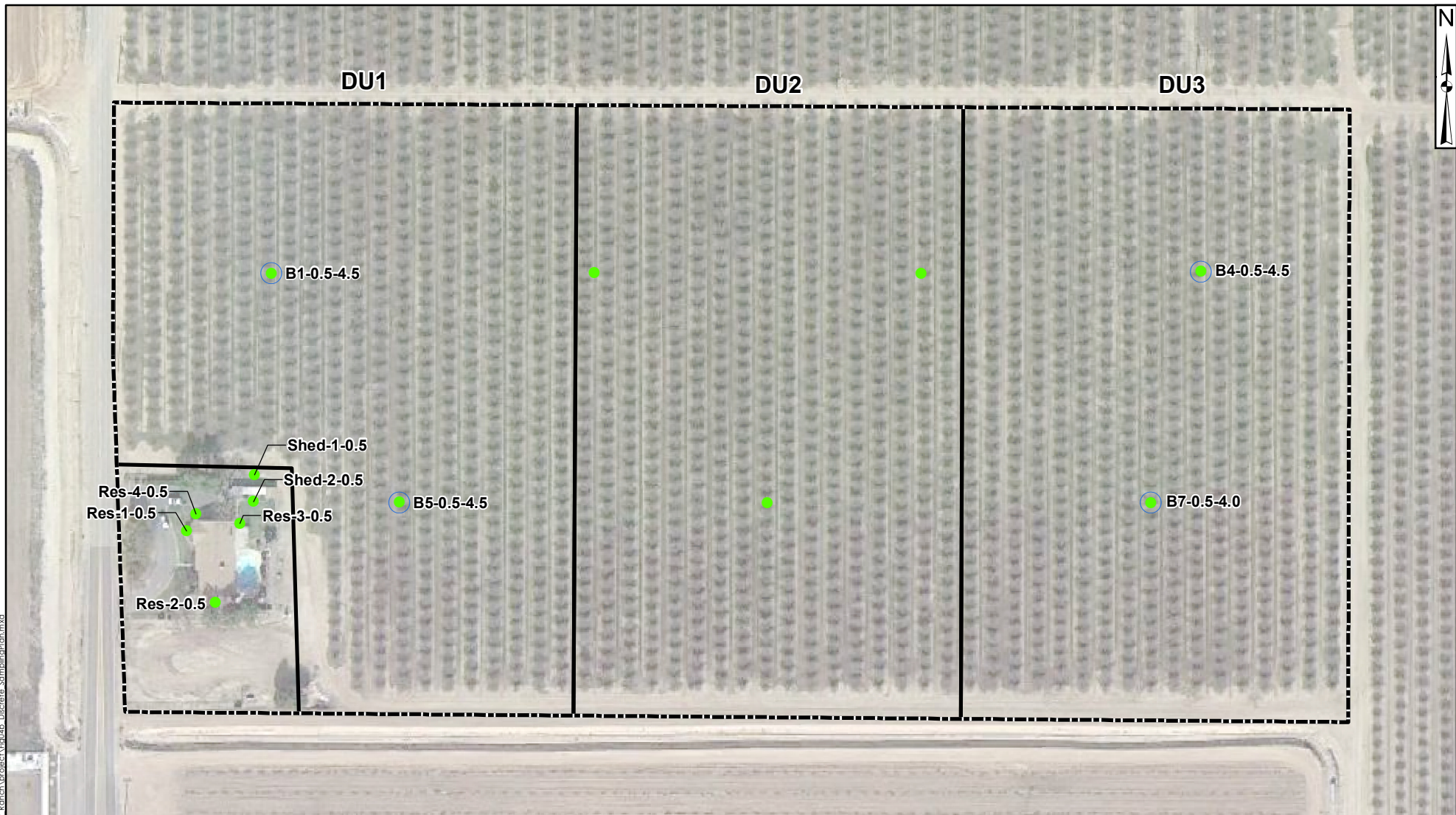
Project No.: SAC147U

March 2019

Figure

1

\\escramble-01\data\GIS\SAC147_DTSC\Task_Order\Lowery_Ranch\Project\Fig04b_Discrete_SamplingPlan.mxd



Legend

Discrete Sample Locations

- Surface
- Background

- Decision Unit Boundary
- Site Boundary



Discrete Sampling Plan

Lowery Ranch (aka Ritchie Ranch)
Road 100 and Avenue 318 (River Way Drive)
Visalia, California

Geosyntec
consultants

Project No.: SAC147U

June 2019

Figure

5b

	A	B	C	D	E	F	G	H	I	J	K	L
1	UCL Statistics for Uncensored Full Data Sets											
2												
3	User Selected Options											
4	Date/Time of Computation			ProUCL 5.2 8/12/2025 3:13:46 PM								
5	From File			Arsenic_data_ucl_c.xls								
6	Full Precision			OFF								
7	Confidence Coefficient			95%								
8	Number of Bootstrap Operations			2000								
9												
10												
11	Arsenic											
12												
13	General Statistics											
14	Total Number of Observations				21		Number of Distinct Observations				15	
15							Number of Missing Observations				0	
16	Minimum				2.8		Mean				5.452	
17	Maximum				15		Median				4.6	
18	SD				2.767		Std. Error of Mean				0.604	
19	Coefficient of Variation				0.507		Skewness				2.6	
20												
21	Normal GOF Test											
22	Shapiro Wilk Test Statistic				0.672		Shapiro Wilk GOF Test					
23	1% Shapiro Wilk Critical Value				0.873		Data Not Normal at 1% Significance Level					
24	Lilliefors Test Statistic				0.255		Lilliefors GOF Test					
25	1% Lilliefors Critical Value				0.219		Data Not Normal at 1% Significance Level					
26	Data Not Normal at 1% Significance Level											
27												
28	Assuming Normal Distribution											
29	95% Normal UCL						95% UCLs (Adjusted for Skewness)					
30	95% Student's-t UCL				6.494		95% Adjusted-CLT UCL (Chen-1995)				6.812	
31							95% Modified-t UCL (Johnson-1978)				6.551	
32												
33	Gamma GOF Test											
34	A-D Test Statistic				1.579		Anderson-Darling Gamma GOF Test					
35	5% A-D Critical Value				0.745		Data Not Gamma Distributed at 5% Significance Level					
36	K-S Test Statistic				0.218		Kolmogorov-Smirnov Gamma GOF Test					
37	5% K-S Critical Value				0.19		Data Not Gamma Distributed at 5% Significance Level					
38	Data Not Gamma Distributed at 5% Significance Level											
39												
40	Gamma Statistics											
41	k hat (MLE)				6.299		k star (bias corrected MLE)				5.431	
42	Theta hat (MLE)				0.866		Theta star (bias corrected MLE)				1.004	
43	nu hat (MLE)				264.5		nu star (bias corrected)				228.1	
44	MLE Mean (bias corrected)				5.452		MLE Sd (bias corrected)				2.34	
45							Approximate Chi Square Value (0.05)				194.1	
46	Adjusted Level of Significance				0.0383		Adjusted Chi Square Value				191.7	
47												
48	Assuming Gamma Distribution											
49	95% Approximate Gamma UCL				6.406		95% Adjusted Gamma UCL				6.486	
50												
51	Lognormal GOF Test											
52	Shapiro Wilk Test Statistic				0.848		Shapiro Wilk Lognormal GOF Test					
53	10% Shapiro Wilk Critical Value				0.923		Data Not Lognormal at 10% Significance Level					

	A	B	C	D	E	F	G	H	I	J	K	L	
54	Lilliefors Test Statistic					0.193	Lilliefors Lognormal GOF Test						
55	10% Lilliefors Critical Value					0.173	Data Not Lognormal at 10% Significance Level						
56	Data Not Lognormal at 10% Significance Level												
57													
58	Lognormal Statistics												
59	Minimum of Logged Data					1.03	Mean of logged Data					1.615	
60	Maximum of Logged Data					2.708	SD of logged Data					0.378	
61													
62	Assuming Lognormal Distribution												
63	95% H-UCL					6.332	90% Chebyshev (MVUE) UCL					6.739	
64	95% Chebyshev (MVUE) UCL					7.355	97.5% Chebyshev (MVUE) UCL					8.211	
65	99% Chebyshev (MVUE) UCL					9.891							
66													
67	Nonparametric Distribution Free UCL Statistics												
68	Data do not follow a Discernible Distribution												
69													
70	Nonparametric Distribution Free UCLs												
71	95% CLT UCL					6.446	95% BCA Bootstrap UCL					6.886	
72	95% Standard Bootstrap UCL					6.418	95% Bootstrap-t UCL					7.756	
73	95% Hall's Bootstrap UCL					11.52	95% Percentile Bootstrap UCL					6.476	
74	90% Chebyshev(Mean, Sd) UCL					7.264	95% Chebyshev(Mean, Sd) UCL					8.084	
75	97.5% Chebyshev(Mean, Sd) UCL					9.223	99% Chebyshev(Mean, Sd) UCL					11.46	
76													
77	Suggested UCL to Use												
78	95% Student's-t UCL					6.494							
79													
80	Note: Suggestions regarding the selection of a 95% UCL are provided to help the user to select the most appropriate 95% UCL.												
81	Recommendations are based upon data size, data distribution, and skewness using results from simulation studies.												
82	However, simulations results will not cover all Real World data sets; for additional insight the user may want to consult a statistician.												
83													

APPENDIX G
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)	8
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	0.1	70	59
BLOOD Pb, PICA CHILD	0.7	1.3	1.6	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	0.06	98%	9.6E-2	0.72	100%
Inhalation	2.9E-6	0.00	0.0%		0.00	0.0%

[Click here for Equations](#)

*Pathway Exposure Factor